

**IN THE UNITED STATES DISTRICT COURT  
FOR THE SOUTHERN DISTRICT OF ILLINOIS**

CALEB BARNETT, <i>et al.</i> , Plaintiffs, vs. KWAME RAOUL, <i>et al.</i> , Defendants.	Case No. 3:23-cv-209-SPM ** designated Lead Case
DANE HARREL, <i>et al.</i> , Plaintiffs, vs. KWAME RAOUL, <i>et al.</i> , Defendants.	Case No. 3:23-cv-141-SPM
JEREMY W. LANGLEY, <i>et al.</i> , Plaintiffs, vs. BRENDAN KELLY, <i>et al.</i> , Defendants.	Case No. 3:23-cv-192-SPM
FEDERAL FIREARMS LICENSEES OF ILLINOIS, <i>et al.</i> , Plaintiffs, vs. JAY ROBERT “JB” PRITZKER, <i>et al.</i> , Defendants.	Case No. 3:23-cv-215-SPM

**REPORT AND DECLARATION OF JENS LUDWIG**

## **BACKGROUND AND QUALIFICATIONS**

I, Jens Ludwig, declare as follows:

1. I am the Edwin A. and Betty L. Bergman Distinguished Service Professor at the University of Chicago, Pritzker Director of the University of Chicago's Crime Laboratory ("Crime Lab."), codirector of the University of Chicago's Education Laboratory ("Education Lab."), and codirector of the National Bureau of Economic Research's working group on the economics of crime. I received my B.A. in Economics from Rutgers College (1990), and my M.A. (1992) and Ph.D. from Duke University (1994).

2. I have coauthored or coedited several works, including *Gun Violence: The Real Costs* (coauthor Philip Cook, Oxford University Press, 2000), *Evaluating Gun Policy* (coeditor Philip Cook, Brookings Institution Press, 2003), and *Controlling Crime: Strategies and Tradeoffs* (coeditors Philip Cook and Justin McCray, University of Chicago Press, 2012). My research has been published in leading peer-reviewed journals in numerous scientific disciplines, including the *American Economic Review*, the *Quarterly Journal of Economics*, *Science*, *Proceedings of the National Academy of Sciences*, *New England Journal of Medicine*, *Journal of the American Medical Association*, and the *American Journal of Sociology*. The University of Chicago's Crime Lab and Education Lab projects have been featured in national news outlets such as the *New York Times*, *Washington Post*, *Wall Street Journal*, PBS News Hour, and National Public Radio. In 2014, the Crime Lab was the recipient of a \$1 million MacArthur Award for Creative and Effective Institutions.

3. In 2006 I received from the Association of Public Policy Analysis and Management (the main professional organization for public policy schools) the David N. Kershaw prize for distinguished contributions to public policy and management by age 40. In 2012, I was elected to

both the Academy of Experimental Criminology and to the National Academy of Medicine of the National Academies of Science, for recognition of my research on the topic of gun violence.

4. A true and correct copy of my curriculum vitae is attached to this report as Exhibit A. This includes the list of publications I have authored for the past 10 years.

5. I have been retained by the Office of the Attorney General of Illinois to provide expert testimony in litigation challenging various aspects of Illinois Public Act 102-1116, also known as the Protect Illinois Communities Act (“the Act”). As of the date of this report, the scope of my engagement includes providing expert testimony in the following cases: *Harrel v. Raoul*, No. 23-cv-141 (S.D. Ill.); *Langley v. Kelly*, No. 23-cv-192 (S.D. Ill.); *Barnett v. Raoul*, No. 23-cv-209 (S.D. Ill.); *Federal Firearms Licensees of Illinois v. Pritzker*, No. 23-cv-215 (S.D. Ill.); *Herrera v. Raoul*, No. 23-cv-532 (N.D. Ill.); *Bevis v. Naperville*, No. 22-cv-4775 (N.D. Ill.); and *Kenneally v. Raoul*, No. 23-cv-50039 (N.D. Ill.). I have reviewed the provisions of Public Act 102-1116 being challenged in this case. I am not being compensated for my work on this matter.

### **OPINIONS**

6. I have been asked to provide an opinion on the effect of large-capacity magazines on gun violence in Chicago. To inform my thinking on this subject I have carried out analysis of data from the Chicago Police Department (CPD) from multiple years to look at trends in case-fatality rates (the share of shootings that result in the victim’s death) and a number of candidate explanations for any changes in that outcome. Factors that are changing over time are viable explanations for any change in case fatality rates, while factors that are *not* changing over this time period can be ruled out as candidate explanations for the change in case fatality rates. I carried out this analysis as part of my work directing the University of Chicago Crime Lab, where our mission includes analyzing data to inform the public about key facts and trends related to public safety and

the public sector's response to that challenge. For that purpose the Crime Lab has expertise in not only accessing the publicly available data sources that I draw on here (the city of Chicago public data portal; the city of Philadelphia public data portal; and data obtained from the Los Angeles Police Department under California's Freedom of Information Act) but also restricted-use data from the Chicago Police Department that the Crime Lab has access to for research purposes through a data sharing agreement with the city of Chicago. Restricted-use datasets analyzed here include the CPD shooting victim database, the CPD crime incident database, and the CPD inventoried evidence database. These data were originally analyzed for the purposes of writing an oped column in the *Chicago Tribune*, where I am a regular contributor. This was co-authored with Jacob Miller (formerly of the Crime Lab, now a data analyst at CPD).

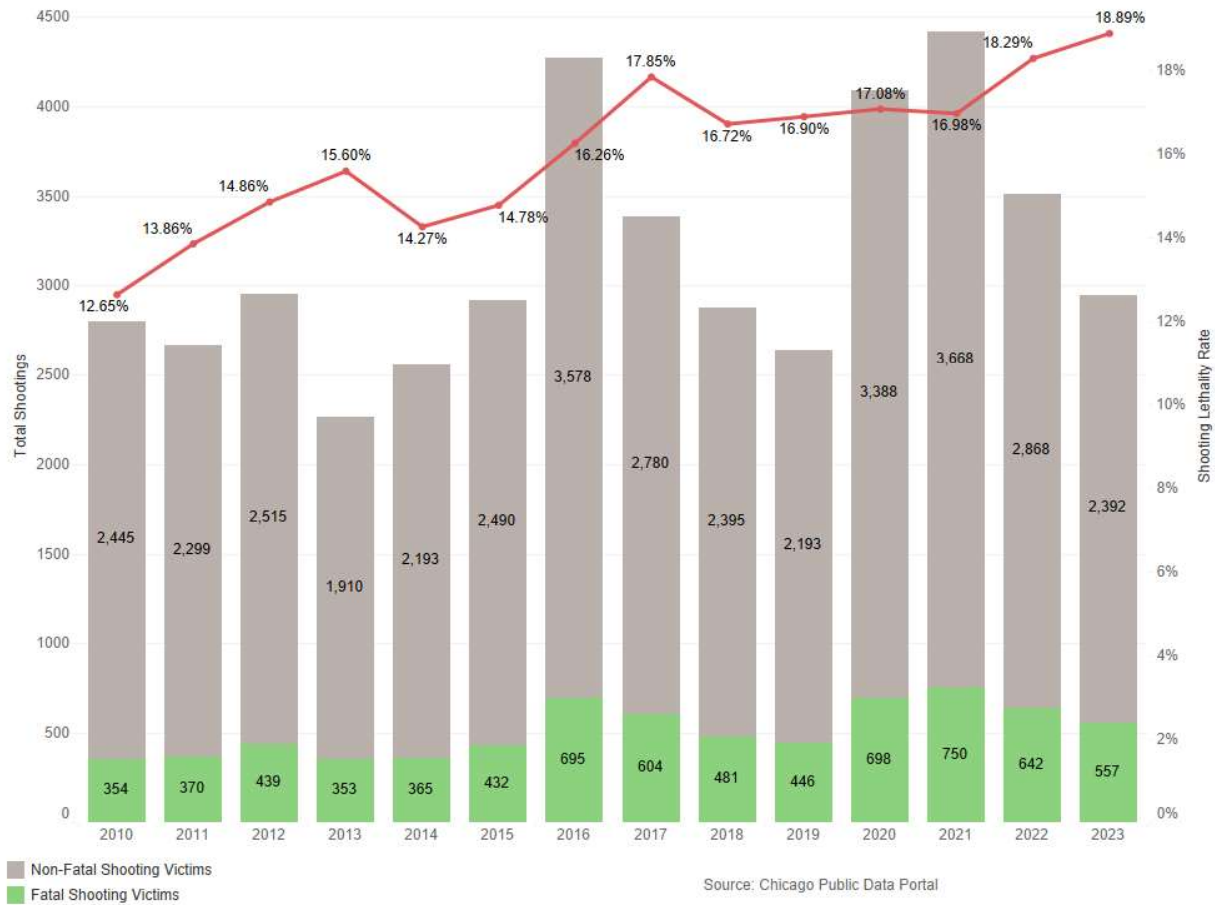
7. Based on this analysis, described further below, it is my view that the use of large capacity magazines has caused shooting incidents to become more lethal. In other words, large capacity magazines have made it more likely that someone will die in a shooting incident in Chicago. As a result, Chicago is experiencing a higher number of shooting-related deaths.

**I. Changes in the Shooting Lethality Rate in Chicago and Elsewhere.**

8. Chicago's shooting lethality rate—the odds that a shooting will result in a fatality—has risen markedly in recent years. As the chart below illustrates, the likelihood of someone dying in a shooting incident in 2010 was 12.65%. In 2023, that figure had risen to 18.89%.

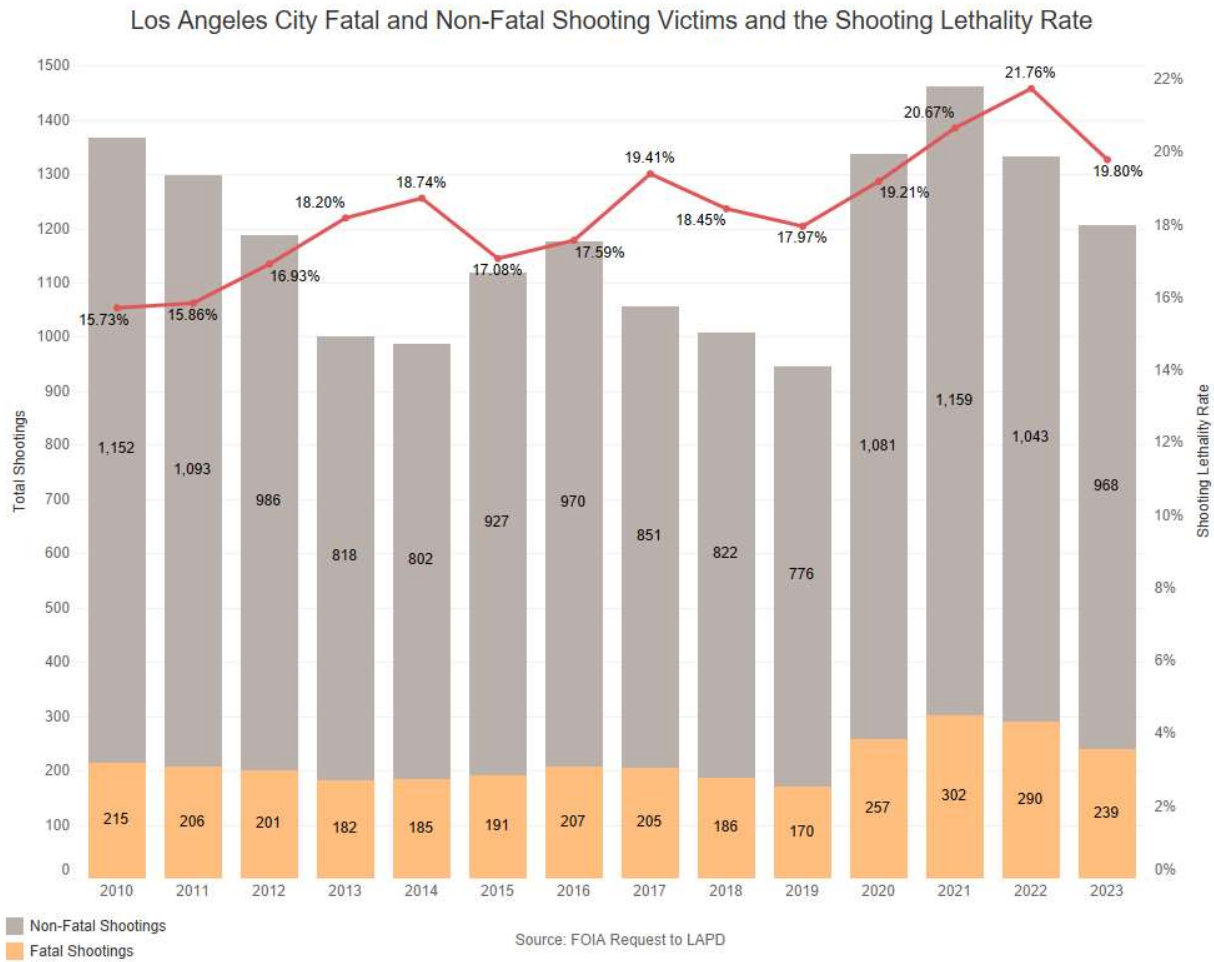
TABLE 1-C

## Chicago Fatal and Non-Fatal Shooting Victims and the Shooting Lethality Rate



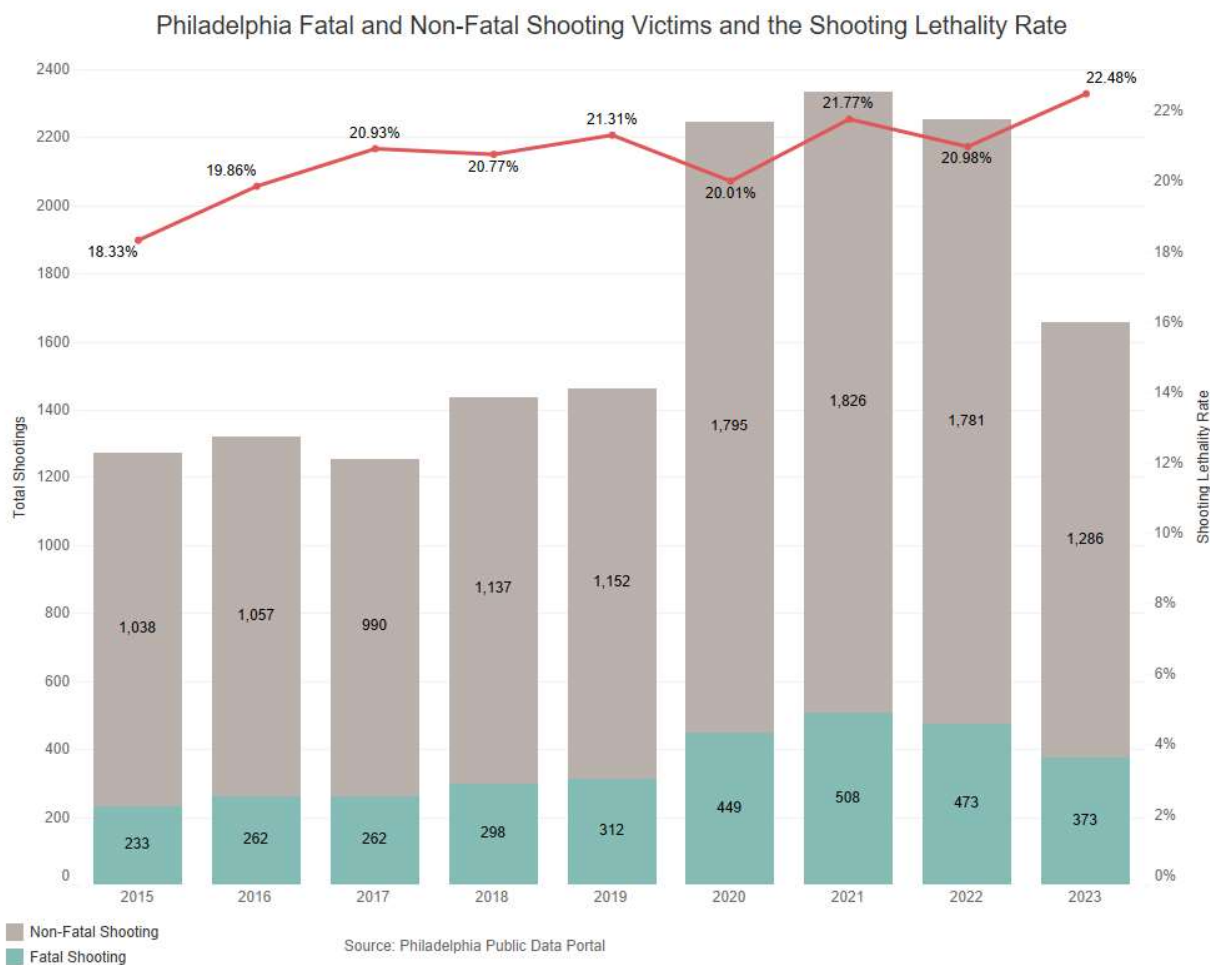
9. Similar increases in the lethality of shootings have been observed in Los Angeles and Philadelphia. In Los Angeles, the shooting lethality rate rose from 15.73% in 2010 to 19.80% in 2023.

TABLE 1-LA



10. Philadelphia saw an increase from 18.33% in 2015 to 22.48% in 2023. (The starting date in our analysis is different for Philadelphia because we are relying on publicly available data that was not available before 2015).

TABLE 1-PH



11. In each city, the increase in the shooting lethality rate meant a higher number of total shooting-related fatalities. In Chicago, had the shooting lethality rate remained constant between 2010 and 2023, the number of people killed in shooting incidents in 2023 would have been 373. Instead, it was 557. In other words, 184 more people died in Chicago in 2023 in shooting incidents than would have died if the shooting lethality rate remained at its 2010 level. That is roughly equal to one-third of the total homicides in Chicago in 2023.

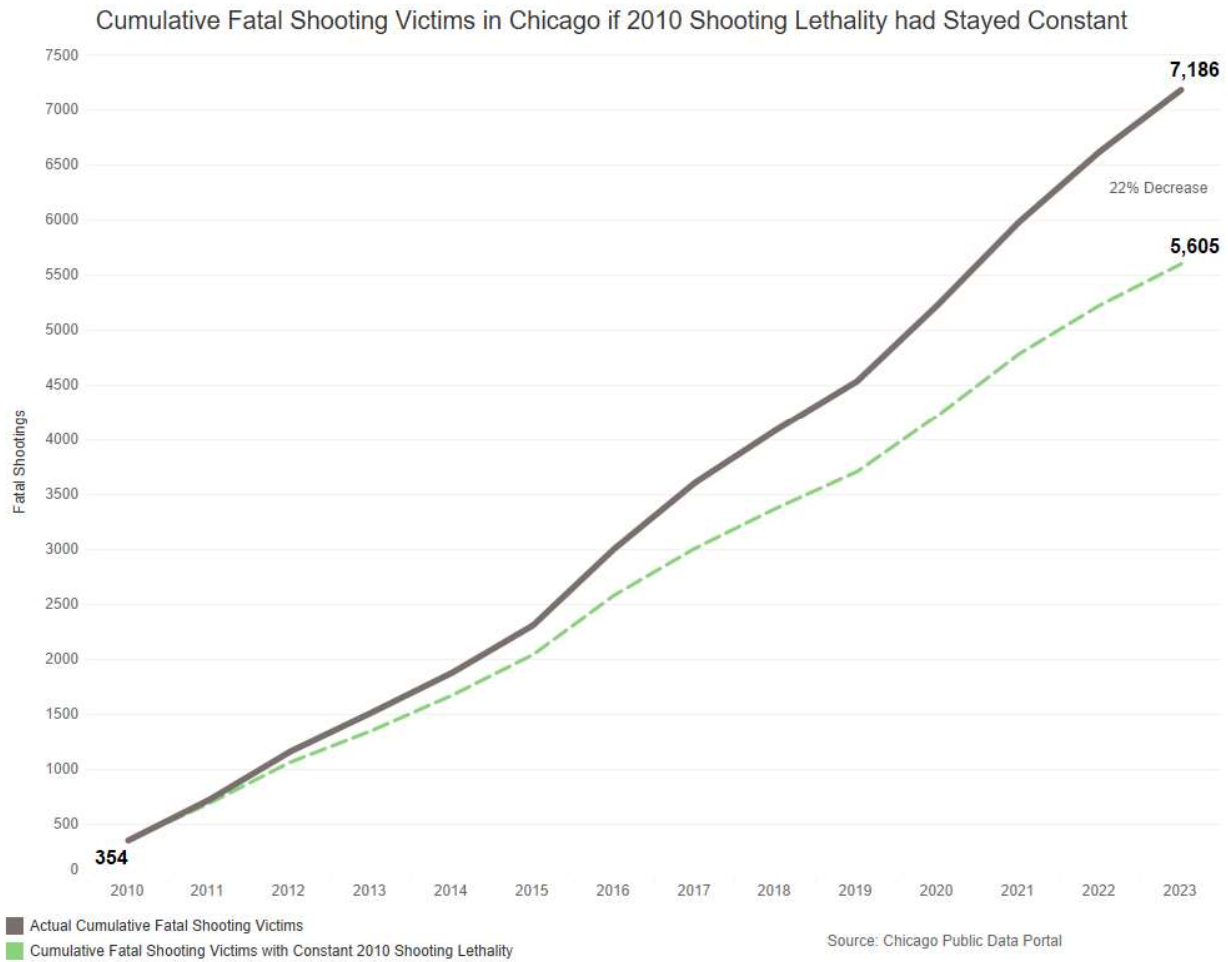
TABLE 2-C



12. Moreover, the cumulative number of shooting victim fatalities between 2010 and 2023 would have been 5,605 if the shooting lethality rate had remained constant. It did not, and instead Chicago saw a cumulative total of 7,186 shooting fatalities. The increased shooting lethality rate therefore resulted in 1,581 additional fatal shooting victims in Chicago from 2010 to 2023.

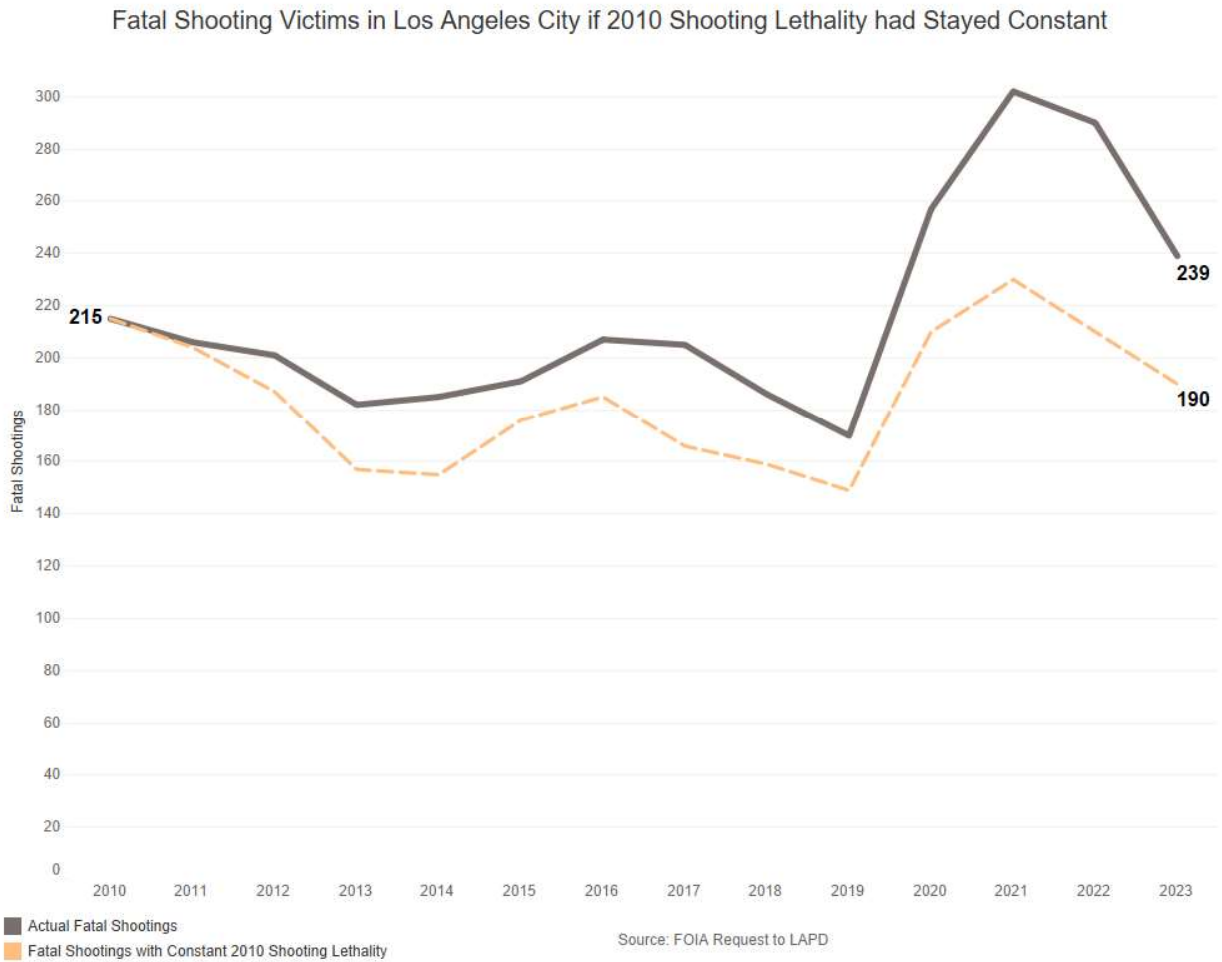


TABLE 3-C



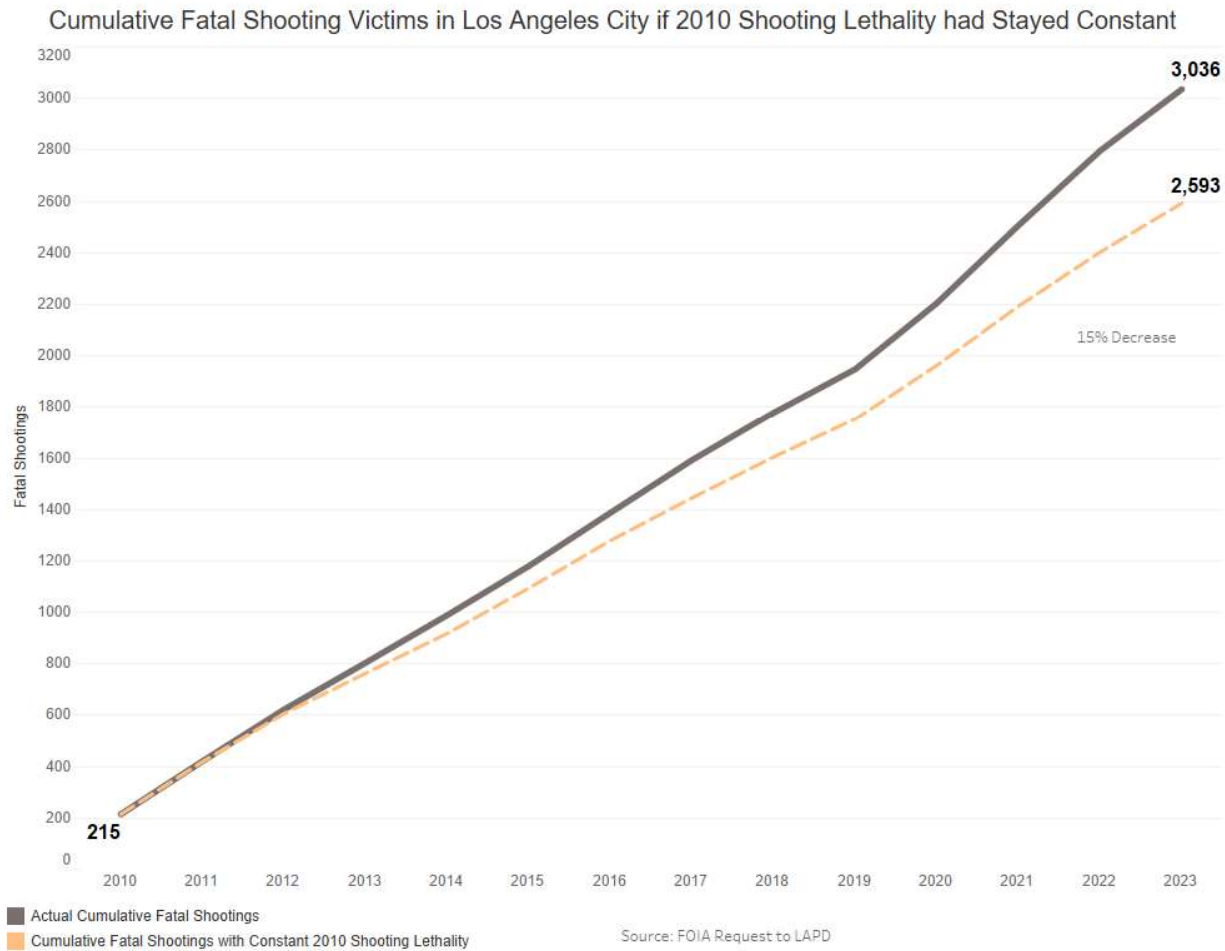
13. The trends are similar in Los Angeles and Philadelphia. Los Angeles would have experienced 49 fewer shooting fatalities in 2023 (190 rather than 239) if the shooting lethality rate had remained at 2010 levels.

TABLE 2-LA



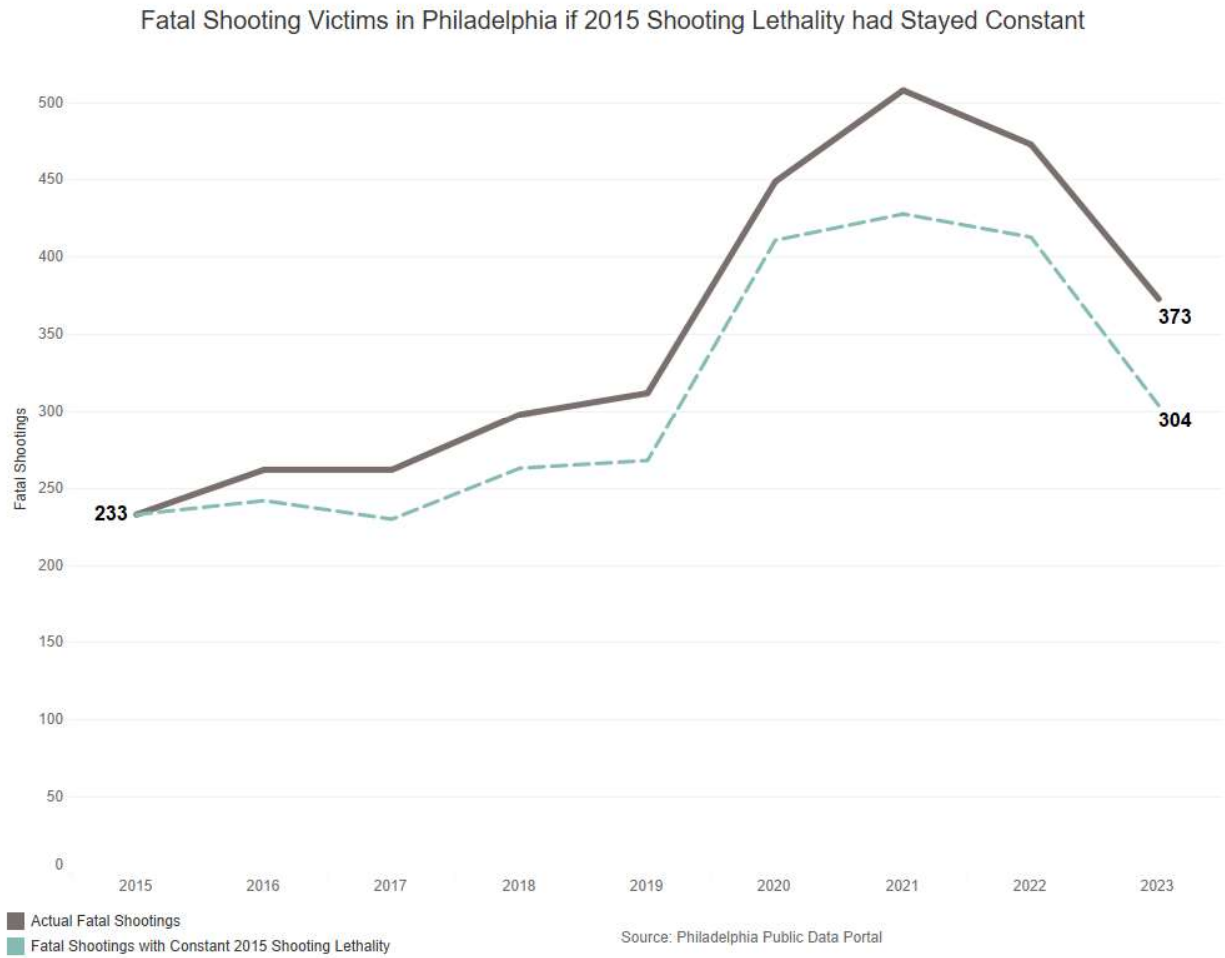
14. The cumulative increase for Los Angeles was also larger as a result of the increase in the shooting lethality rate—3,036 fatalities rather than 2,593 had the 2010 rate remained constant. That means 443 additional shooting deaths are attributable to the increase in lethality.

TABLE 3-LA



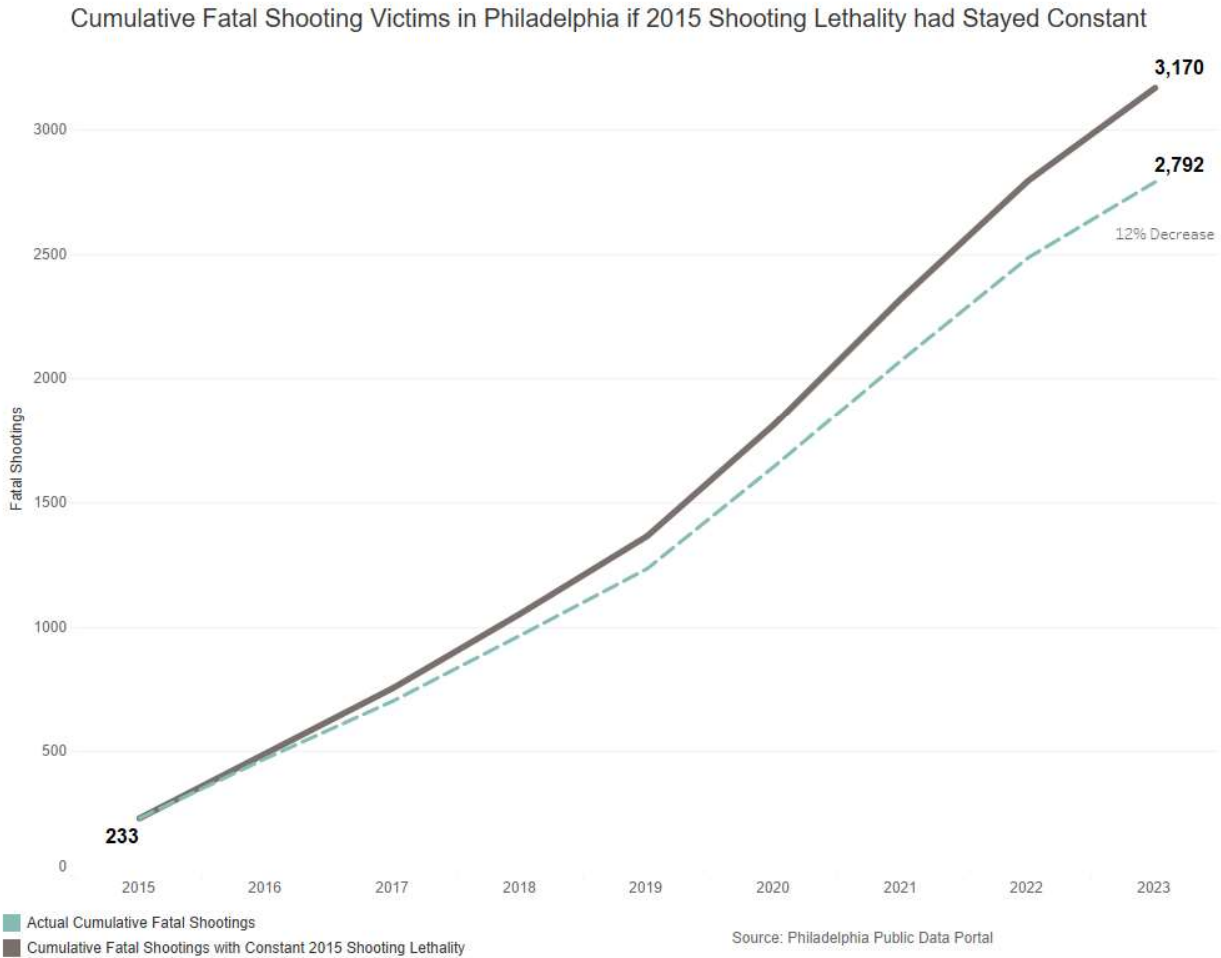
15. The same pattern is visible in Philadelphia. Shooting fatalities in 2023 numbered 373, whereas the 2015 shooting lethality rate would have yielded only 304 (a difference of 69 deaths).

TABLE 2-PH



16. And as in Chicago and Los Angeles, the cumulative total in Philadelphia was higher than it would have been had the shooting lethality rate remained what it was in 2015. Cumulative shooting fatalities were 3,170 2023, whereas 2015 rates would have yielded only 2,792. The difference means 378 additional deaths.

TABLE 3-PH



17. In short, shootings are becoming more lethal in Chicago and at least two other major metropolitan areas, and the number of shooting fatalities is rising accordingly.

**II. Factors driving the increase in the Shooting Lethality Rate**

18. We set out to examine what was driving this increase in the shooting lethality rate in Chicago. As noted above, the empirical fact we sought to explain is a change over time in the case fatality rate for gunshot wounds (the share of shootings that result in a fatality). The logic behind our analysis approach was that this change must stem from a change in something else. So we explored which social factors that could potentially explain the rising case fatality rate did versus did not change over time. Those that changed remained viable explanations for the rising

shooting fatality rate, while those that did not change did not. We focused on Chicago for this analysis because we had access to more data sources for Chicago than for the other cities described above.

#### **A. Hypotheses Unsupported by the Data**

19. We tested a number of hypotheses against the data and were able to rule out at least four.

##### **1. Domestic Shootings**

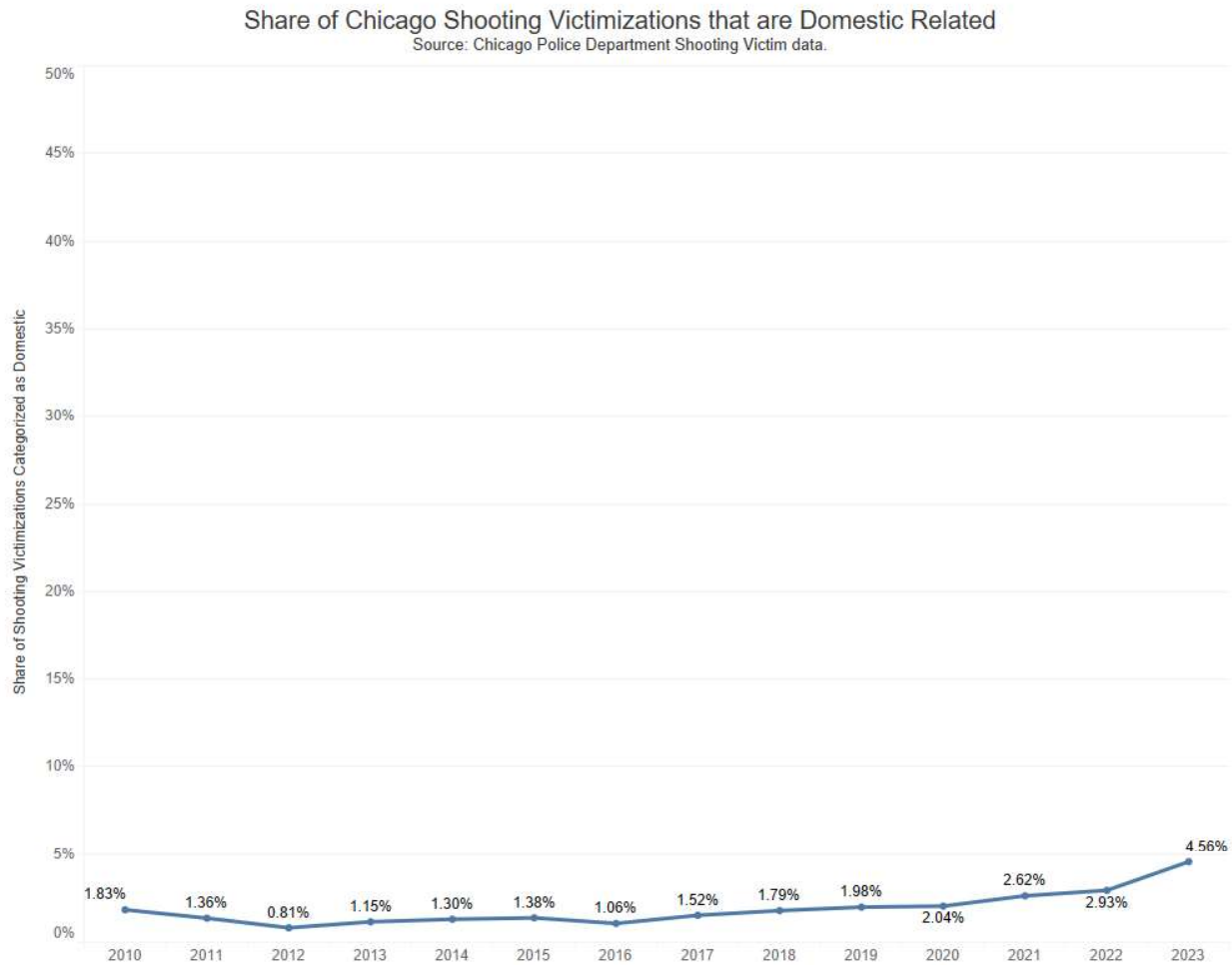
20. Shootings that happen indoors are more lethal than those that happen outdoors,<sup>1</sup> presumably in part because the gunshot wound is inflicted from closer range and potentially more likely to strike a particularly vulnerable body part. Because domestic shootings may be more likely than other shootings to happen indoors, given the domestic relationship and in many cases cohabitation of the parties involved, we set out to determine whether the increase in Chicago's shooting lethality rate was driven by an increase in domestic shootings. We quickly concluded that it was not.

21. The rate of domestic shootings in Chicago did indeed increase between 2010 and 2023. See Table 4-C. However, domestic shootings constituted only 1.83% of all shootings in 2010, and just 4.56% of all shootings in 2023. While this is a large increase if domestic shootings are considered in isolation, such shootings still make up only a small part of the total number of shootings. The increase is too small to account for the increase in the overall shooting lethality rate.

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<sup>1</sup> Jeffrey Brantingham, et al., *Situational and Victim Correlates of Increased Case Fatality Rates in Los Angeles Shootings, 2005–2021*, J URBAN HEALTH 101:272–279 (2024). Available at <https://doi.org/10.1007/s11524-024-00845-z>.

TABLE 4-C



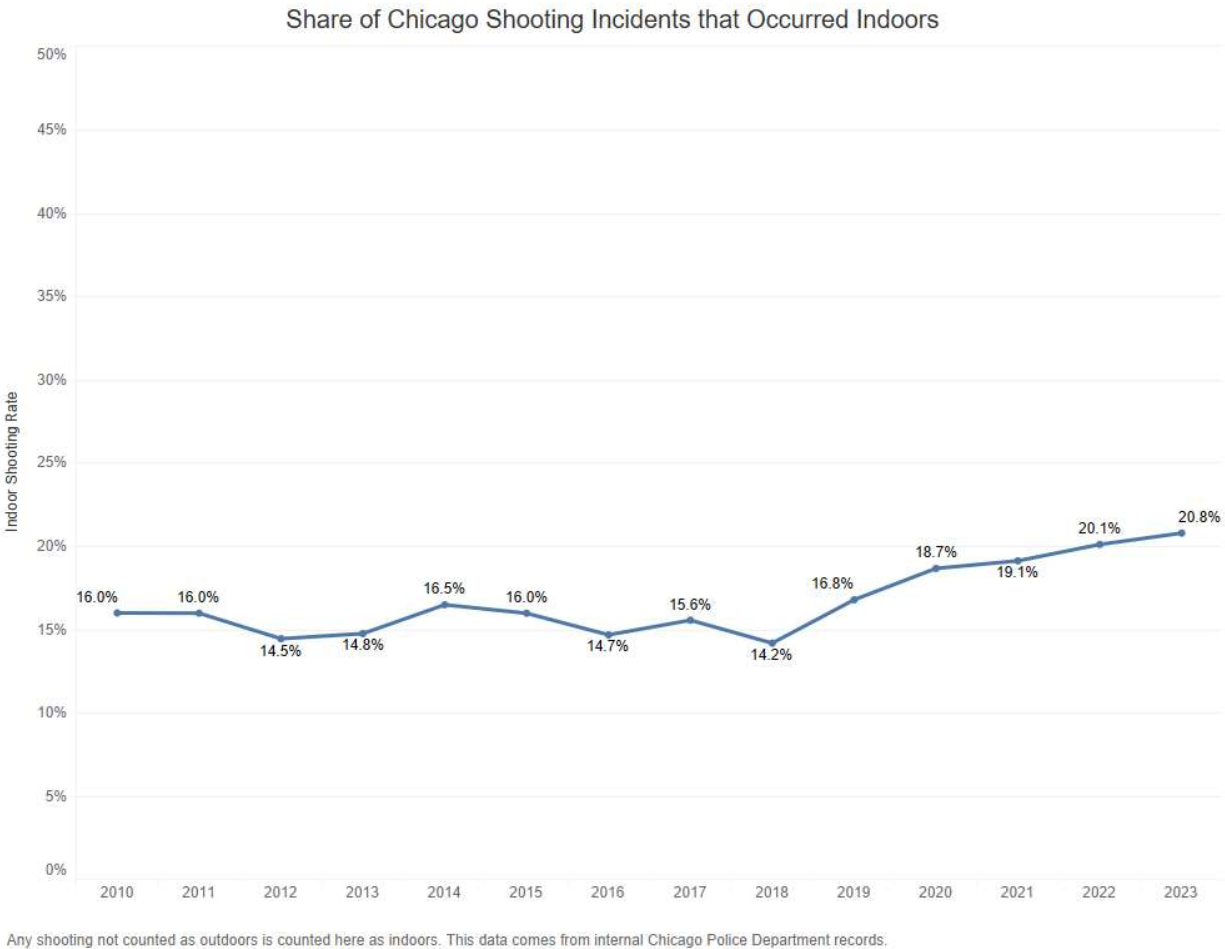
22. Furthermore, the fluctuations in the rate of domestic shootings across years does not correspond with fluctuations in the shooting lethality rate, as it should if domestic shooting were contributing to the overall shooting lethality rate. Compare Table 4C with Table 1C. While the shooting lethality rate dropped in 2014, domestic shootings rose. Similarly, shooting lethality rose in 2017 then dropped in 2018, while domestic shootings rose in both years. These trends show that changes in domestic shootings do not account for changes in the shooting lethality rate.

## 2. Outdoor vs. Indoor Shootings

23. We can also look more directly at trends in indoor shootings, since not every indoor shooting is domestic-related. For this reason, we looked to see whether a shift to a higher rate of

indoor shootings might be behind the increased shooting lethality rate. This proved not to be the case. The rate of shootings that occur indoors in Chicago has not changed substantially since 2010.

TABLE 5-C



24. As Table 5C shows, the rate of indoor shootings rose slightly between 2010 and 2023, but the increase is not large enough to account for the dramatic rise in shooting lethality.

25. Furthermore, if the indoor/outdoor distinction is driving the shooting lethality rate, then lethality should rise as the rate of indoor shootings rises. But that is not what we found. For example, the rate of indoor shootings dropped slightly between 2015 and 2016 (from 16.0% to 14.7%), but instead of dropping, the shooting lethality rate rose (from 14.78% to 16.26%).

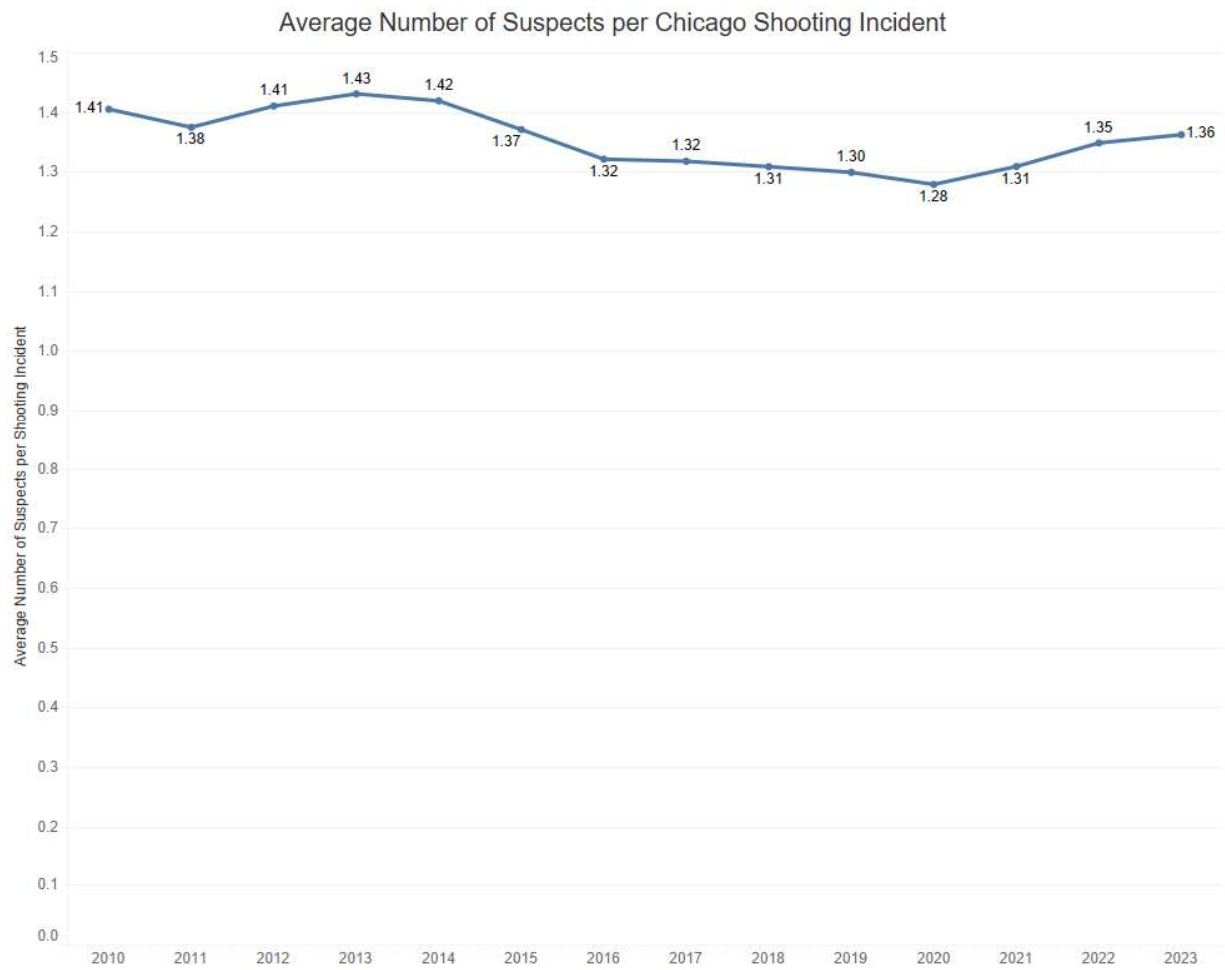


Compare Table 5C with Table 1C. The rate of outdoor shootings does not appear to be the driver of the rise in shooting lethality.

**3. Average Number of Shooting Suspects**

26. Another possibility we considered was whether the number of people actually firing in any given shooting incident (and hence the number of weapons being fired) was increasing, potentially giving rise to a greater number of fatalities. Here again, the data showed that this was not the case. The average number of suspects in shootings in Chicago has changed little between 2010 and 2013, hovering consistently over this time period between 1.3 and 1.4 suspects per shooting incident.

TABLE 6-C



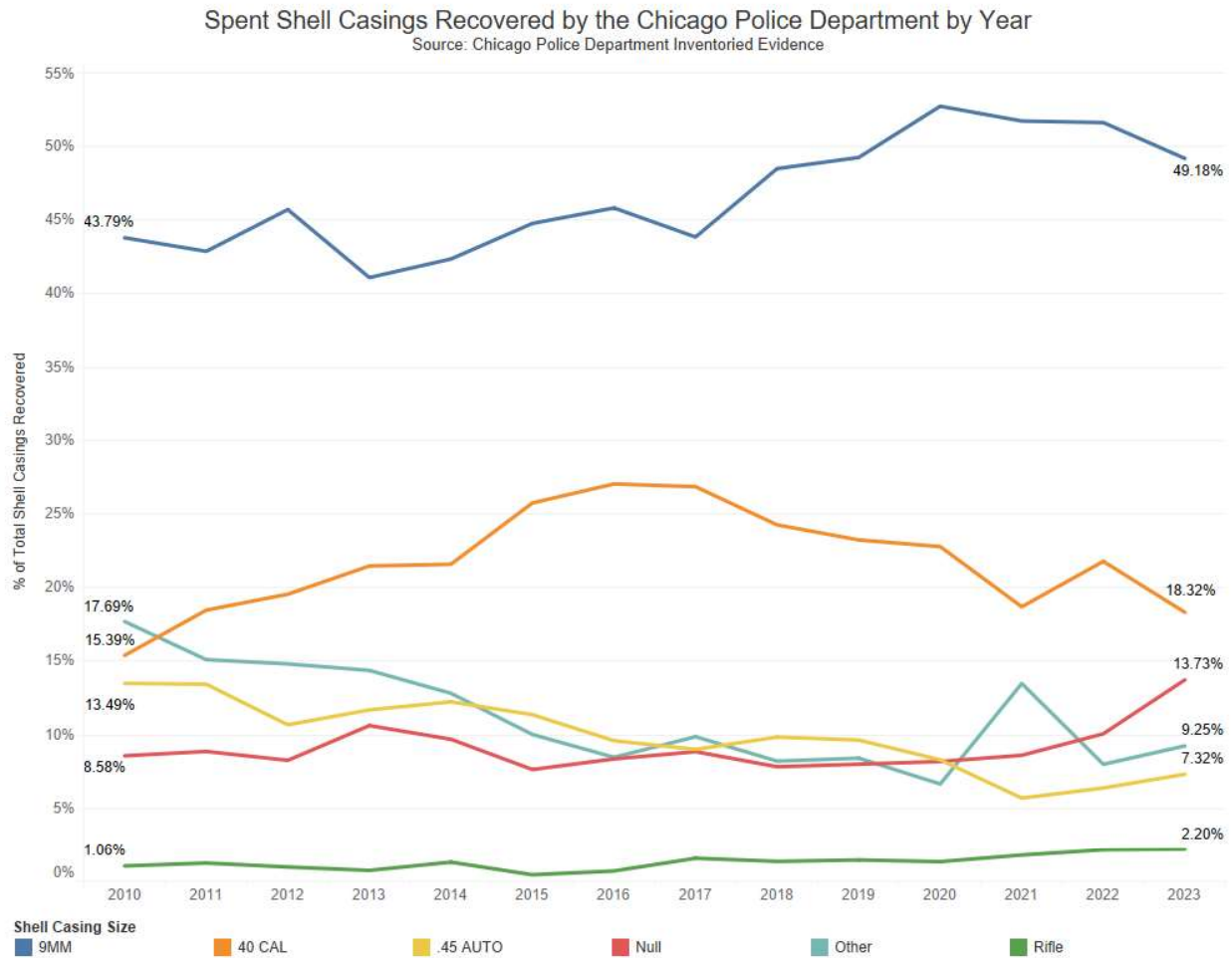
#### **4. Larger Bullets, causing more fatal wounds.**

27. Finally, we considered the possibility that shootings in Chicago were being carried out with larger caliber bullets than in the past. All else being equal, larger bullets are likely to cause greater injuries and more fatalities.<sup>2</sup> Recovered shell casings can tell us the caliber of the bullets fired in a shooting. As Table 7C shows, there have been some changes in the composition of the size of recovered shell casings used in shootings in Chicago. However, the changes mostly show one large shell casing (.40 cal) becoming more popular (at least for stretches of our study period) at the expense of another large shell casing (.45 auto). What we do not see is an overall shift from smaller-caliber to larger-caliber bullets that might account for the increase in lethality.

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<sup>2</sup> Franklin E. Zimring, *The Medium is the Message: Firearm Caliber As a Determinant of Death from Assault*. J. LEGAL STUD., 97-123 (1972).

TABLE 7-C



28. Changes in the quality of medical care for gunshot wounds is another candidate explanation for changes over time in the lethality rate for shootings. We do not have the data to test this hypothesis directly in Chicago specifically, but the usual assumption is that trauma care is improving over time, which all else equal would lead the shooting lethality rate to decline over time. If medical care is indeed getting better over time in Chicago, our results might if anything understate the rise in case-fatality rates that we document due to other factors – although the degree

to which medical care has improved in practice remains somewhat unclear due to difficult measurement challenges in the available medical data.<sup>3</sup>

**B. Hypothesis consistent with the Data**

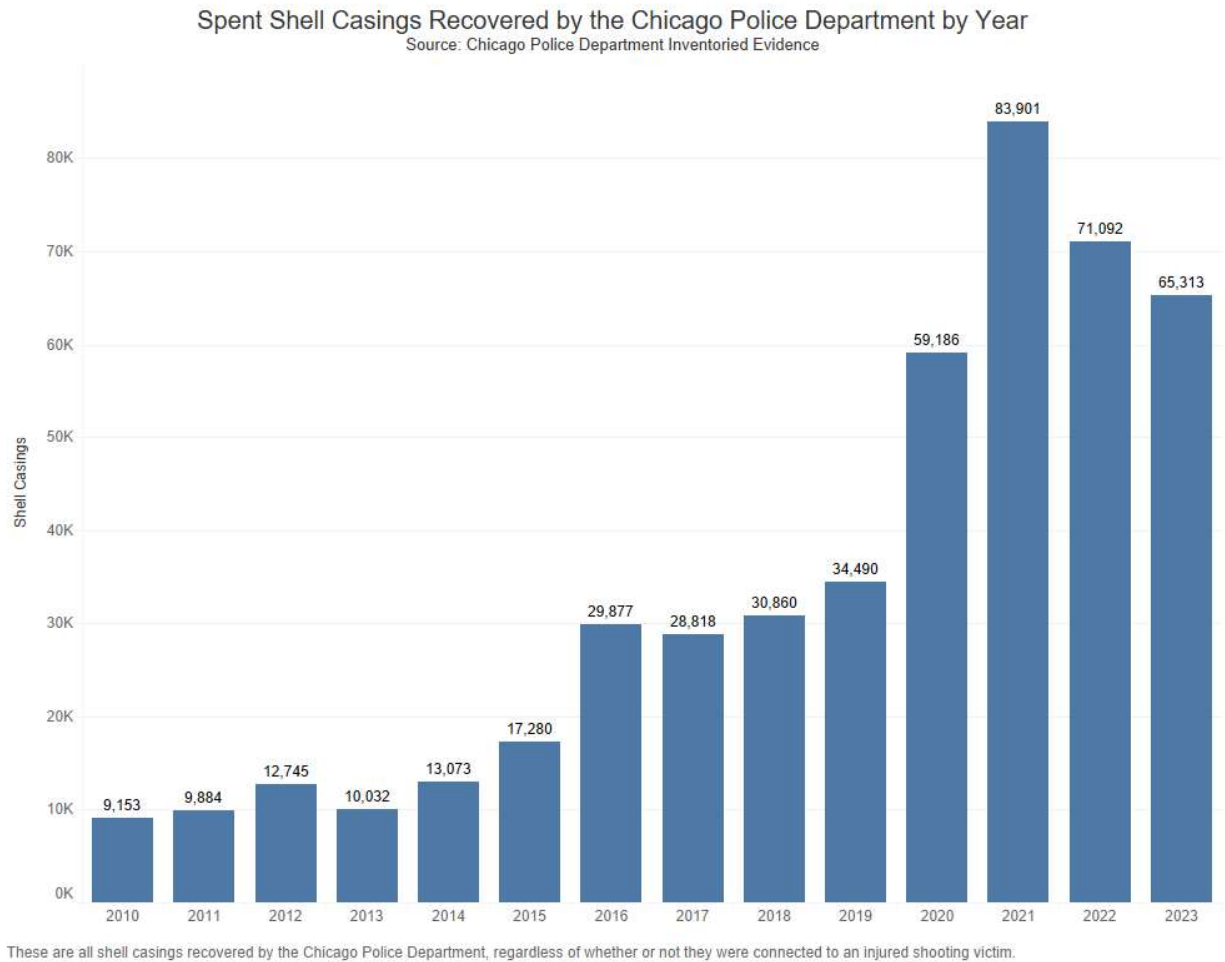
29. Only one hypothesis that we tested was supported by the data: that shooters are firing more rounds on average than used to be the case, and that large capacity magazines are enabling this increase in rounds fired. This hypothesis is supported by several data points.

30. First, the total number of shells casings recovered at shooting incidents by the Chicago Police Department is surging. Recovered shell casings should be a reasonable proxy for the number of shots fired. The two numbers will not be identical for two reasons: First, while semi-automatic firearms expend shell casings after being fired, revolvers do not, so the analysis may understate the rise in the number of shots fired because a rise in shots fired from revolvers need not lead to an increase in shell casings found by police. Second, at shooting scenes the police inevitably will not find every shell casing that is expended by a semi-automatic firearm (some may wind up falling down a storm drain, getting lost in shrubbery or tall grass, etc.). In 2010, CPD recovered a total of 9,153 shell casings. In 2023, CPD recovered 65,313 – more than 7 times as many. These numbers include all shootings regardless of whether there was a victim.

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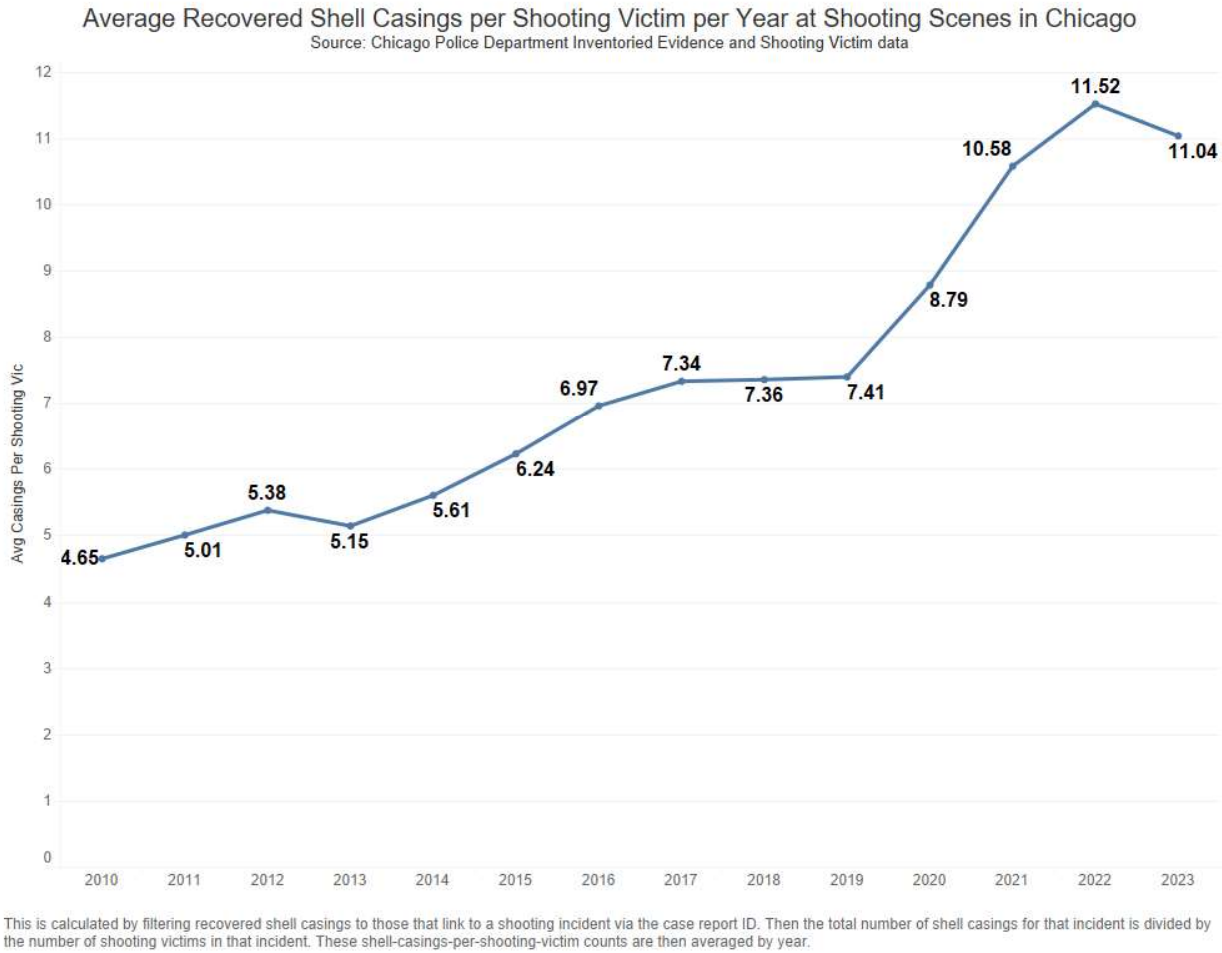
<sup>3</sup> See, e.g., Philip J. Cook, et al., *Constant Lethality of Gunshot Injuries from Firearm Assault: United States, 2003-2012*, AM. J. PUB. HEALTH, 107(8):1324-1328 (Aug 2017). Available at <https://ajph.aphapublications.org/doi/full/10.2105/AJPH.2017.303837>.

TABLE 8-C



31. Second, the average number of shell casings recovered by the Chicago Police Department per shooting victim has more than doubled. CPD recovered an average of 4.65 casings per victim in 2010. In 2023, that average was 11.04 (down from a single-year high of 11.52 in 2022).

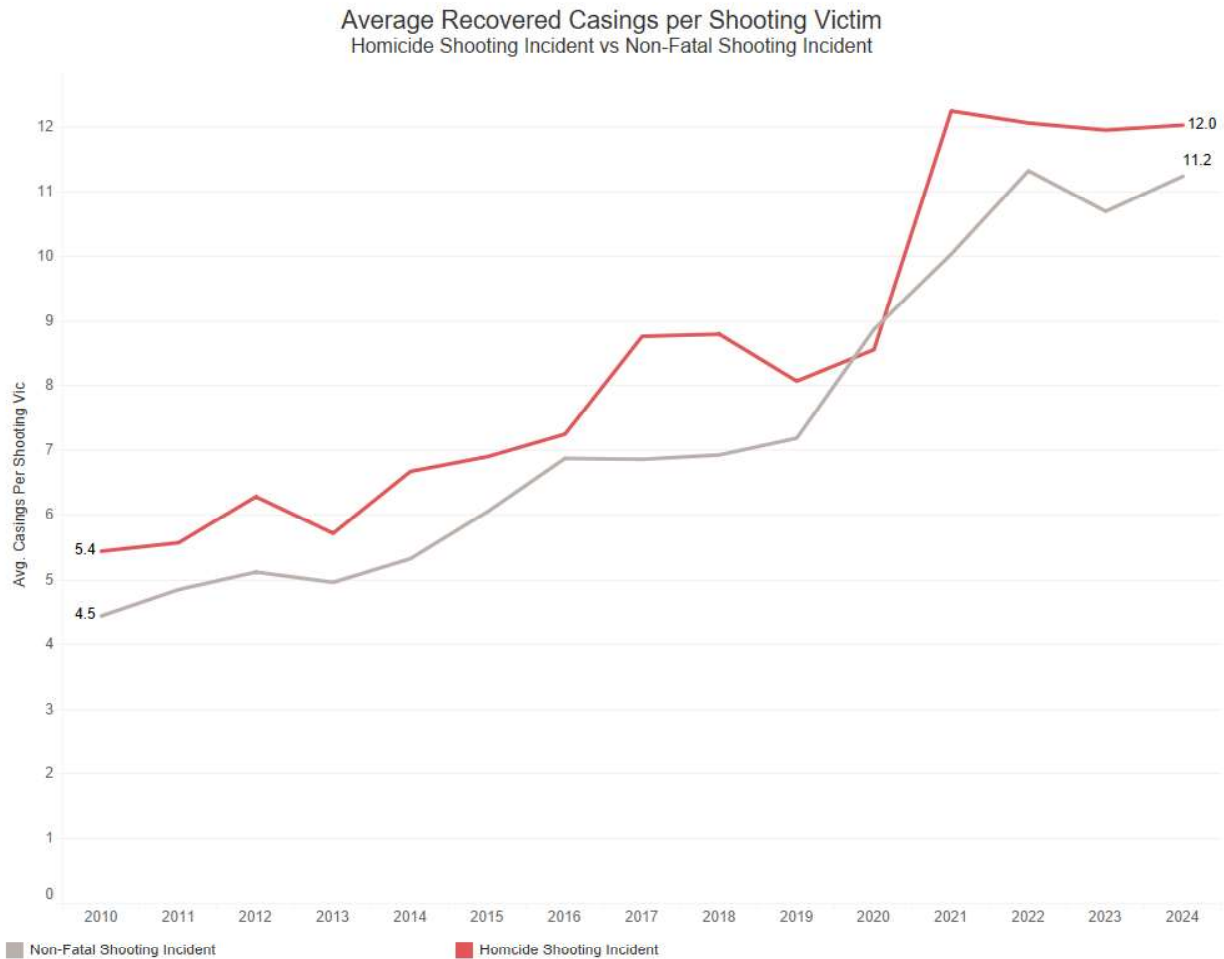
TABLE 9-C



32. Third, while the number of shell casings recovered in both fatal and non-fatal shootings has risen (where by non-fatal we mean those that do not involve a decedent), CPD recovers more shell casings, on average, from fatal shootings than non-fatal ones. The average number of shell casings recovered per fatal shooting incident rose from an average of 5.4 shell casings recovered per incident in 2010 to 12 casings per incident in 2023. For non-fatal shootings, 4.5 shell casings were recovered on average in 2010, rising to 11.2 shell casings in 2023. These increases in the average number of shell casings recovered per shooting incident again underscore that more shots are being fired per shooting incident now than in 2010. But more importantly, the

higher number of shell casings recovered in fatal shootings links the number of shots fired to lethality—more shots fired means that a death is more likely.

TABLE 10-C



33. Fourth, both the number and the share of shooting incidents where more than 20 shell casings were recovered has skyrocketed. In 2010, there were 31 incidents (1.68% of total incidents) at which CPD recovered 20 or more shell casings. In 2021 there were 1,033 such incidents (12.69% of total incidents). That represents a thirty-three-fold increase in the number of such incidents, and more than a seven-fold increase in the rate.

TABLE 11-C

## Shooting Incidents in Chicago by Number of Recovered Shell Casings

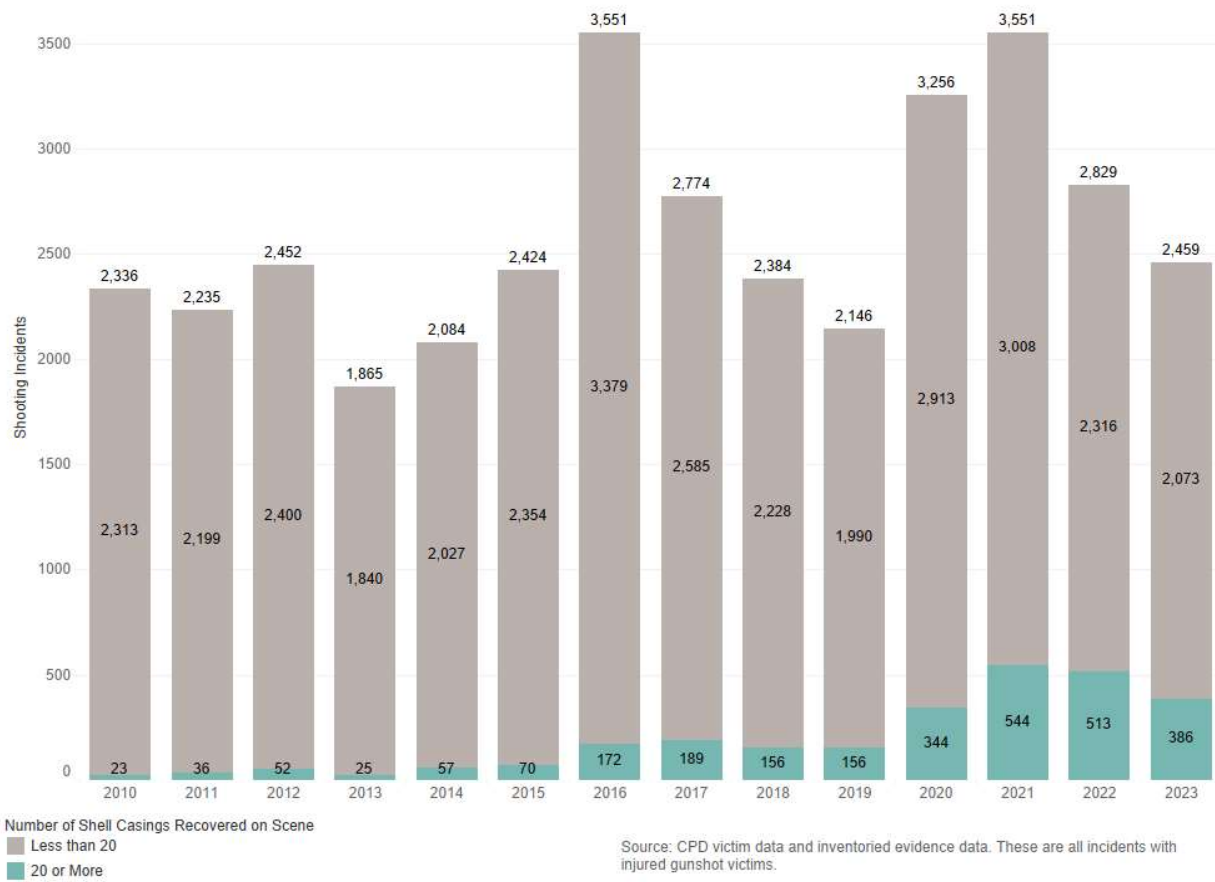
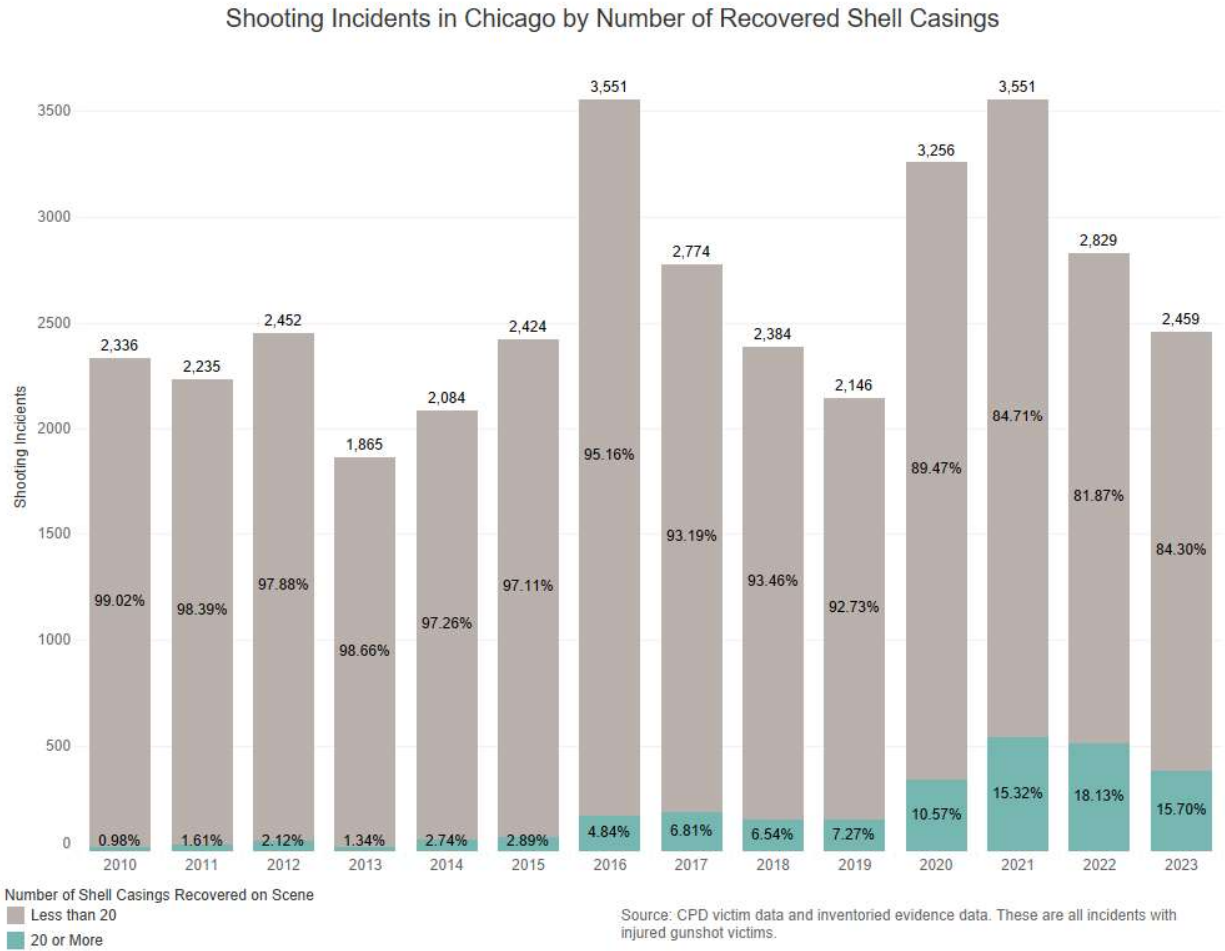


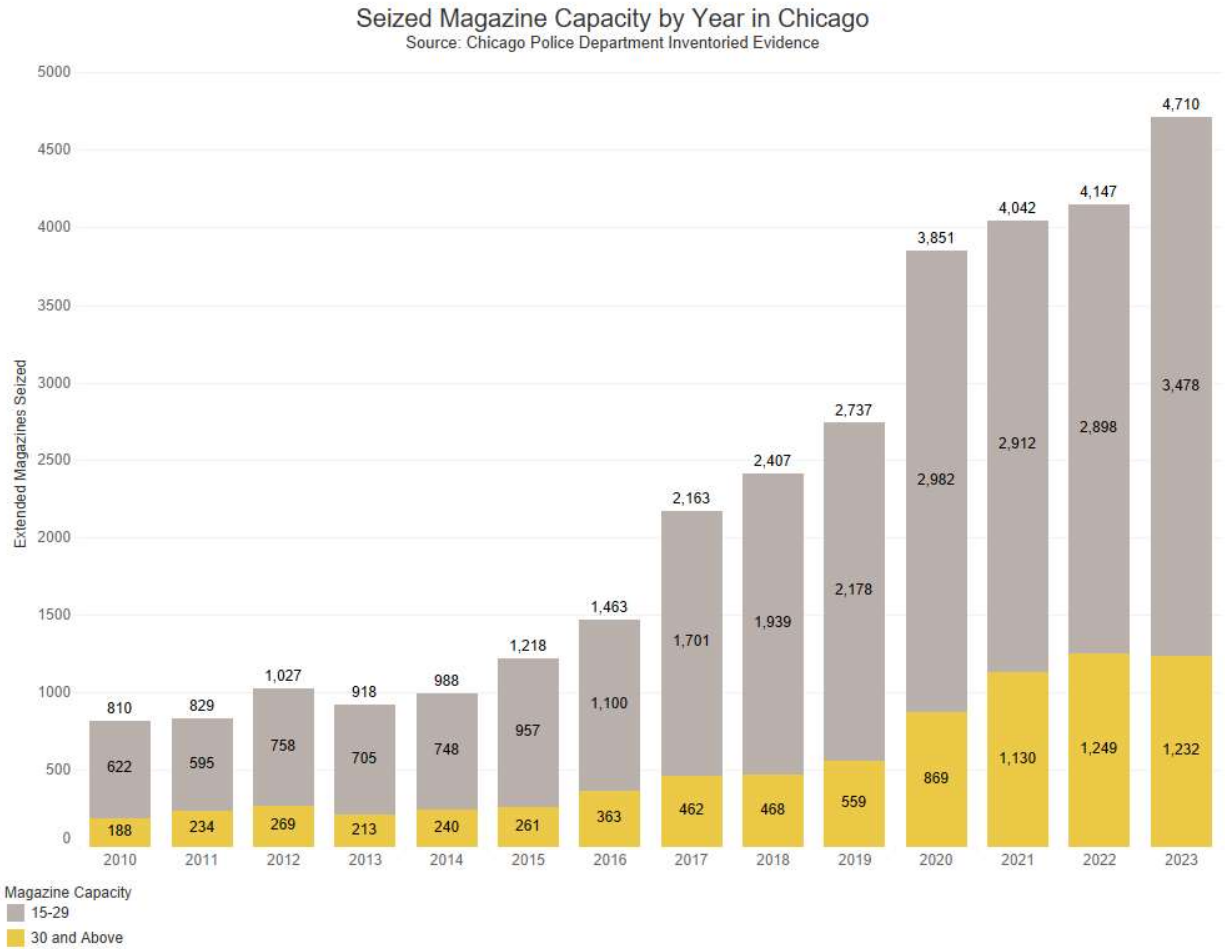


TABLE 12C



34. Finally, the number of high-capacity (15-29 rounds) and extremely high-capacity (30 rounds or more) magazines recovered at shootings by CPD is rising rapidly. Between 2010 and 2023, there was a 559% increase in the number of magazines recovered with a capacity of 15 or more rounds. Within that group, there was a 555% increase in the number of magazines recovered with a capacity of 30 or more rounds from 2010 to 2023.

TABLE 13-C

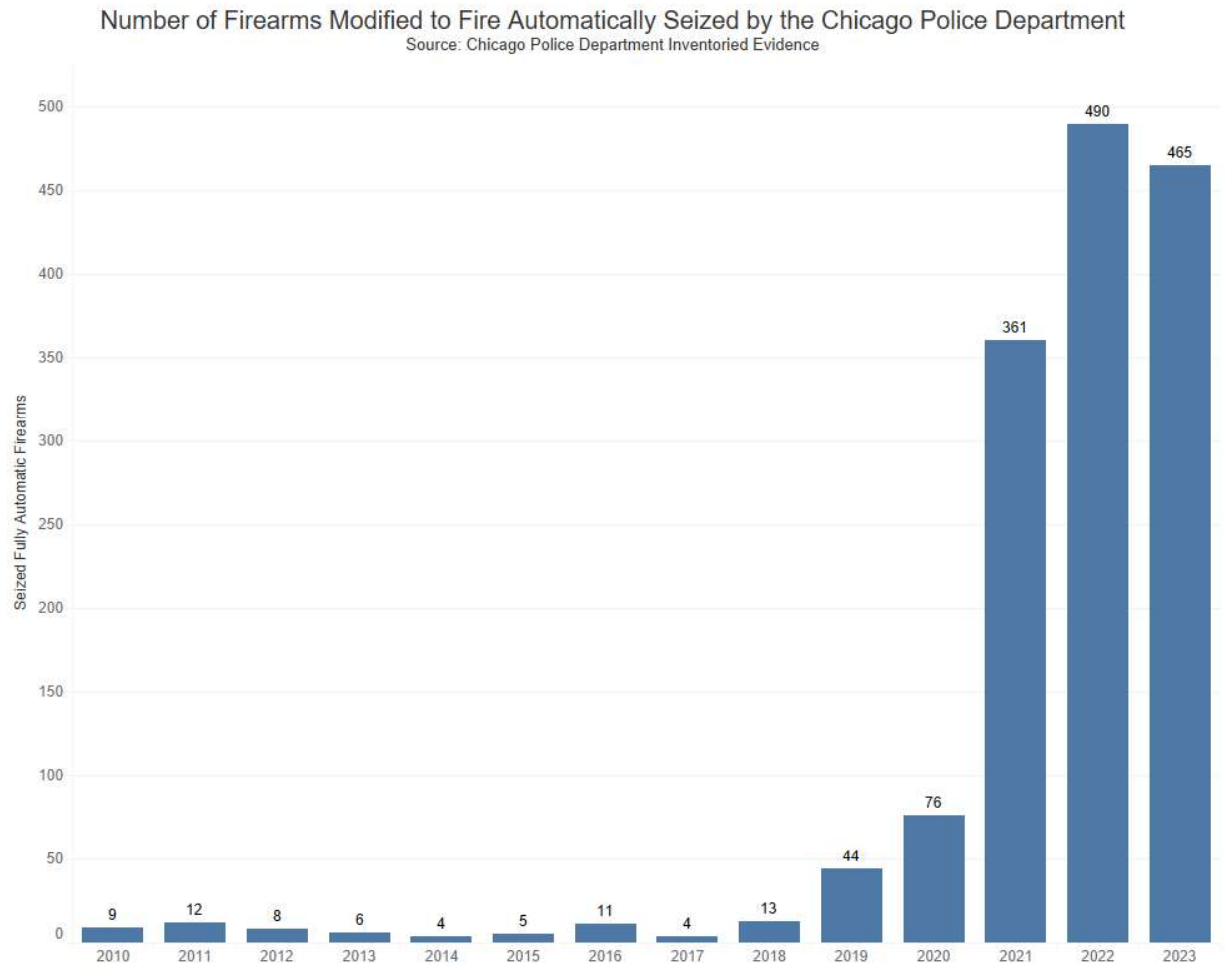


35. These data support the conclusion that the shooting lethality rate in Chicago is rising because shooters have access to large capacity magazines, enabling them to fire more shots—and thereby cause more fatalities—than would otherwise be the case.

36. To be clear, there is also evidence that the problems caused by large capacity magazines are exacerbated by access to “Glock switches.” A Glock switch refers to an illegal after-market device that allows a user to modify certain semi-automatic firearms so that they fire automatically – that is, with a single pull of the trigger, the firearm will continue to fire until the supply of ammunition is exhausted.

37. In Chicago, the number of firearms modified in this way recovered by CPD has increased exponentially. In 2010, CPD recovered only 9 semi-automatic firearms that had been modified to fire automatically. In 2023, the number was 465.

TABLE 14-C



38. Given the magnitude of this increase, it is tempting to blame Glock switches for the increase in the shooting lethality rate. But Glock switches in and of themselves have not caused the increase in rounds fired. This is because the increased *rate* of fire facilitated by a modification like a Glock switch only becomes relevant if a shooter has a large *number* of rounds available to shoot. In other words, large-capacity magazines—which allow a shooter to fire a high number of

rounds without reloading—are necessary to take advantage of the high rate of fire that a modified firearm offers.

### **III. Conclusion**

39. The best available data suggest that large-capacity magazines are driving up the shooting lethality rate in Chicago. As a result of the proliferation of these magazines, Chicago seems to be losing a larger number of people to shooting deaths.

Pursuant to 28 U.S.C. § 1746, I declare under penalty of perjury under the laws of the United States of America that the foregoing is true and correct.

Executed on May 10, 2024 at 8:55a.

/s/

A handwritten signature in black ink, consisting of a large, stylized 'S' shape with a loop at the bottom, written over a horizontal line.

# **EXHIBIT A**

*Curriculum Vitae*  
**JENS LUDWIG**

April 2024

**OFFICE ADDRESS**

University of Chicago  
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Chicago, IL 60637  
(773) 834-0811  
jludwig@uchicago.edu

**EDUCATION**

Ph.D. Economics, Duke University, Durham, NC 1994  
B.A. Economics, (Minor in Religion), Rutgers College, New Brunswick, NJ, 1990

**CURRENT ACADEMIC APPOINTMENTS**

2007-present Edwin A. and Betty L. Bergman Distinguished Service Professor, University of Chicago  
Professor (2006-7), McCormick Foundation Professor (2007-2019)  
2011-present Pritzker Co-Director, University of Chicago Urban Education Lab  
2008-present Pritzker Director, University of Chicago Crime Lab  
Faculty Director (2008-2018)  
2022-present Faculty Member, Committee on Education, University of Chicago

**PREVIOUS ACADEMIC APPOINTMENTS**

2011-2012 Academic Director for Students, Harris School for Public Policy Studies, University of Chicago  
1994-2007 Professor of Public Policy, Georgetown University  
Assistant Professor (1994-2001), Associate Professor (2001-2006)  
2006-2007 Associate Dean for Public Policy Admissions, Georgetown University  
2001-2002 Andrew W. Mellon Fellow in Economic Studies, The Brookings Institution  
1997-1998 Visiting Scholar, Northwestern / University of Chicago Joint Center for Poverty Research

**OTHER AFFILIATIONS**

2024-2027 Member, Committee on Law and Justice, National Academies of Sciences, Engineering & Medicine, Division of Behavioral and Social Sciences and Education (DBASSE)  
2005-present Research Associate, Children's and Health Programs, National Bureau of Economic Research  
Faculty Research Fellow (2005-2008)  
2007-present Co-director, Working Group on Economics of Crime, National Bureau of Economic Research  
2014-2019 Crime Program Chair, Abdul Latif Jameel Poverty Action Lab (J-PAL)  
2014-2019 Board of Directors, Abdul Latif Jameel Poverty Action Lab (J-PAL)  
2013-present Abdul Latif Jameel Poverty Action Lab (J-PAL) North America Affiliate  
2013-present University of Pennsylvania Institute for Urban Research (Penn IUR) Scholar  
2012 (June) Visiting Scholar, LIEPP, Sciences Po (Paris)  
2010-2013 Member, MacArthur Foundation Network on Housing and Families with Children  
2010-2012 Member, Board on Children, Youth and Families, National Academies of Science  
2009-present Research Associate, National Opinion Research Center, University of Chicago

2006-2015 Research Fellow, IZA Bonn  
 2006-2022 Non-resident Senior Fellow in Economic Studies, The Brookings Institution  
 2006-2020 Project Director, Long-Term Evaluation of HUD's Moving to Opportunity Experiment, National Bureau of Economic Research  
 2004, 2006 Visiting Professor, University of Chicago Law School

### **HONORS**

2012 Member, National Academy of Medicine of the National Academies of Science (elected)  
 2012 Fellow, Academy of Experimental Criminology (elected)  
 2006 David N. Kershaw Prize, Distinguished Contributions to Public Policy Analysis and Management by Age 40, Association for Public Policy Analysis and Management  
 2014 MacArthur Foundation Award to Creative and Effective Institutions to the University of Chicago Crime Lab (\$1 million)  
 2010 Investigator Award in Health Policy Research, Robert Wood Johnson Foundation  
 2010 Visiting Scholar, Russell Sage Foundation  
 2011 Association of Prosecuting Attorneys Innovations in Criminal Justice Award to the University of Chicago Crime Lab  
 2016 National Partnership for Juvenile Services, Award for Service and Advocacy for Youth to the University of Chicago Crime Lab  
 2017 Outstanding Senior Faculty Member (student voting), University of Chicago Harris School  
 2013 Best teacher in a non-core course (student voting), University of Chicago Harris School  
 2011 Excellence in refereeing award, Quarterly Journal of Economics  
 2013,14,15 Excellence in refereeing award, American Economic Review  
 2003 Resident Scholar, Rockefeller Foundation Bellagio Study and Conference Center.  
 2000 APPAM Award for Notable Paper on Housing and Community Development.  
 2000 Outstanding Faculty Member (student voting), Georgetown Public Policy Institute.  
 1997-1998 National Academy of Education / Spencer Foundation Postdoctoral Fellow.  
 1996 Outstanding Faculty Member (student voting), Georgetown Public Policy Institute.  
 1990 Phi Beta Kappa.

### **INVITED ADDRESSES**

2023 Staller Lecture, Cornell University  
 2023 Keynote, Conference on Empirical Legal Studies  
 2021 Koen-Horowitz Lecture, Cornell University  
 2021 Jerry Lee Lecture, Stockholm Criminology Symposium - Prize Conference  
 2020 Keynote address on Machine Learning in Labor, Education and Health Economics, University of Erlangen-Nuremberg, Germany  
 2017 Keynote address on Justice and Ethics Policy, Behavioral Science Policy Association Meetings  
 2017 Samuel M. Levin Economics Lecture, Wayne State University  
 2016 Keynote address, 7<sup>th</sup> Annual Southern California Conference in Applied Micro-economics  
 2016 Grossman Lecture, Colby College  
 2013 Opening plenary speaker, University of Pennsylvania Actionable Intelligence for Social Policy annual conference  
 2013 Commencement Speaker, University of Chicago 516<sup>th</sup> Convocation



2013 Jerry Lee Lecture, 2013 Campbell Collaboration Colloquium, Chicago, IL.  
 2012 Annual Dr. Walter M. Booker, Sr. Memorial Symposium, “Best disparities papers: 2011-12,”  
 Association of Black Cardiologists  
 2012 Donald and Margaret Sherman Violence Prevention Lecture, University of Pennsylvania  
 2012 Keynote address, Midwestern Criminal Justice Association 35<sup>th</sup> Annual Meeting  
 2012 Keynote address, Fourth Trans-Atlantic Conference on Economics of Crime (Rotterdam)  
 2012 Opening speaker, Illinois Annual Governor’s Conference on Affordable Housing  
 2011 Invited address, Association of Prosecuting Attorneys Annual Conference  
 2011 Research in the Real World Seminar, National Institute of Justice, US Department of Justice  
 2011 Keynote address, CESifo Venice Summer Institute on Economics of Crime  
 2011 Keynote address, 1<sup>st</sup> Annual Meeting of the America Latina Crime and Policy Network (Rio)  
 2010 Keynote address, National Head Start Association Annual Research Luncheon  
 2009 Keynote address, 1<sup>st</sup> Paris University X / Max Planck Workshop on Law and Economics

### **PROFESSIONAL SERVICE**

2021-present Co-organizer, University of Chicago summer workshop on machine learning and economics  
 2021 Scientific Committee, 5<sup>th</sup> International UN Conference on Governance, Crime and Statistics  
 2020-21 Russell Sage Foundation Joint Advisory Committee for Behavioral Economics and Special  
 Initiative on Decision Making and Human Behavior in Context  
 2020 National Crime and Justice Laboratory Advisory Board, Home Office (UK)  
 2019-present Scientific Advisory Board, Jacobs Center for Positive Youth Development, University of Zurich  
 2018 Transition team for criminal justice, Illinois Governor JB Pritzker  
 2018-2019 National Academy of Sciences Committee on the Neurobiological and Socio-behavioral Science  
 of Adolescent Development and Its Applications  
 2018 External review committee, Frank Batten School of Leadership and Public Policy, UVA  
 2016 Transition Team, Cook County State’s Attorney Kim Foxx  
 2016-2021 Advisory Board, New York City Mayor’s Action Plan for Neighborhood Safety  
 2015-2021 Advisory Board, New York City Mayor’s Office of Criminal Justice “Bail Lab”  
 2015-present Editorial Board, American Economic Review  
 2014-2022 Advisory Board, Cityscape (the journal of HUD’s Office of Policy Development & Research)  
 2013 Member, Advisory Group for Mayor’s Public Safety Action Committee (Chicago, IL)  
 2012-2014 Vice President (elected), Association for Public Policy Analysis and Management  
 2010-2011 Steering Committee, MDRC / Robin Hood Foundation Early Childhood Institute.  
 2009-2012 External Advisory Board, University of Michigan Center for Local, State & Urban Policy  
 2009-2012 Co-editor, Journal of Human Resources  
 2009 Distinguished Editor, NIH Challenge Grant Review Panel  
 2009-2015 Editorial Board, American Economic Journal: Economic Policy  
 2008 National Research Council Committee on Strengthening Benefit-Cost Methodology for the  
 Evaluation of Early Childhood Interventions  
 2008-2011 Editorial Board, Criminology.  
 2005-2015 Editorial Board, Journal of Quantitative Criminology.  
 2005-2008 Policy Council (elected), Association for Public Policy Analysis and Management.  
 2003-2020 Editorial Board, Journal of Policy Analysis and Management.  
 2002 National Research Council Committee on Improving Measures of Access to Equal Educational

Opportunity.  
2001-2006 Steering Committee, National Consortium on Violence Research, Carnegie Mellon University.

## **BOOKS, MONOGRAPHS AND EDITED VOLUMES**

Ludwig, Jens (in progress) Unforgiving Place: Gun Violence in the American City. (University of Chicago Press).

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Jens Ludwig, Sendhil Mullainathan and Ashesh Rambachan (2024) "The unreasonable effectiveness of algorithms." AEA Papers & Proceedings.

Jens Ludwig and Sendhil Mullainathan (2024) "Machine learning as a tool for hypothesis generation." Quarterly Journal of Economics.

Jon Kleinberg, Jens Ludwig, Sendhil Mullainathan and Manish Raghavan (forthcoming) "The inversion problem: Why algorithms should infer mental state and not just predict behavior." Perspectives on Psychological Science.

Morewedge, Carey K., Sendhil Mullainathan, Haaya F. Naushan, Cass R. Sunstein, Jon Kleinberg, Manish

Raghavan and Jens Ludwig (2023) “Psychology in algorithm design.” Nature Human Behavior.

Jon Kleinberg, Jens Ludwig and Sendhil Mullainathan (2023) “Comment on Cohort bias in predictive risk assessments of future criminal justice system involvement.” Proceedings of the National Academy of Sciences. 120(24).

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Milkman, Katherine L., Linnea Gandhi, Mitesh S. Patel, Heather N. Graci, Dena M. Gromet, Hung Ho, Joseph S. Kay, Timothy W. Lee, Jake Rothschild, Jonathan E. Bogard, Ilana Brody, Christopher F. Chabris, Edward Chang, Gretchen B. Chapman, Jennifer E. Dannals, Noah J. Goldstein, Amir Goren, Hal Herschfield, Alex Hirsch, Jillian Hmurovic, Samantha Horn, Dean S. Karlan, Ariella S. Kristal, Cait Lamberton, Michelle N. Meyer, Allison H. Oakes, Maurice E. Schweitzer, Maheen Shermohammed, Joachim Talloen, Caleb Warren, Ashley Whillans, Kuldeep N. Yadav, Julian J. Zlatev, Ron Berman, Chalanda N. Evans, Rahul Ladhania, Jens Ludwig, Nina Mazar, Sendhil Mullainathan, Christopher K. Snider, Jann Spiess, Eli Tsukayama, Lyle Ungar, Christophe Van den Bulte, Kevin G. Volpp, and Angela Duckworth (2022) “A 680,000-person megastudy of nudges to encourage vaccination in pharmacies.” Proceedings of the National Academy of Sciences. 119(6).

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- Ludwig, Jens and Jeffrey Kling (2007) “Is Crime Contagious?” Journal of Law and Economics. 50(3): 491-518.
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- Cook, Philip J. and Jens Ludwig. (2006) “The Social Costs of Gun Ownership.” Journal of Public Economics. 90(1-2): 379-391.
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- Ludwig, Jens, Greg J. Duncan and Joshua Pinkston. (2005) “Housing Vouchers and Economic Self-Sufficiency: Evidence from a Randomized Experiment.” Journal of Public Economics. 89: 131-156.
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#### **BOOK CHAPTERS, ESSAYS AND OTHER PUBLICATIONS (SELECTED)**

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“We are seeing a lethal shift in America’s gun violence crisis” (with Jacob Miller). March 24, 2024.

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Heller, Sara B., Brian A. Jacob and Jens Ludwig (2011) “Family income, neighborhood poverty and crime.” Forthcoming in Controlling Crime: Strategies and Tradeoffs. Edited by Philip J. Cook, Jens Ludwig and Justin McCrary. Chicago: University of Chicago Press. pp. 419-459.

Burdick-Will, Julia, Jens Ludwig, Stephen Raudenbush, Robert Sampson, Lisa Sanbonmatsu, and Patrick Sharkey. “Converging evidence for neighborhood effects on children’s test scores: An experimental, quasi-experimental and observational comparison.” (2011) Whither Opportunity: Rising Inequality,

Schools, and Children's Life Chances, edited by Greg J. Duncan and Richard J. Murnane. New York: Russell Sage Foundation Press. pp. 255-276.

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Ludwig, Jens and Steven Raphael (2010) The Mobility Bank: Increasing Residential Mobility to Boost Economic Mobility. Washington, DC: Hamilton Project Discussion Paper.

Ludwig, Jens and Deborah A. Phillips (2010) "Leave no (young) child behind: Prioritizing access in early education." In Investing in Young Children: New Directions in Federal Preschool Early Childhood Policy. Edited by Ron Haskins and W. Steven Barnett. Washington, DC: Brookings Institution and National Institute for Early Education Research. pp. 49-58.

Ludwig, Jens (2010) "Cost-effective crime prevention." In Contemporary Issues in Criminological Theory: The Role of Social Institutions. Papers from the American Society of Criminology 2010 Conference. Edited by Richard Rosenfeld, Kenna Quinet and C. Garcia. Cengage.

Jacob, Brian and Jens Ludwig (2009) "Improving educational outcomes for poor children." In Changing Poverty, Changing Policies, Edited by Maria Cancian and Sheldon Danziger. New York: Russell Sage Foundation Press. pp. 266-300.

Vigdor, Jacob and Jens Ludwig (forthcoming) "Neighborhoods and Peers in the Production of Schooling." International Encyclopedia of Education, 3<sup>rd</sup> Edition. Ed. Dominic Brewer and Patrick McEwen.

Cook, Philip J. and Jens Ludwig (Forthcoming) "Firearms Violence." In Oxford Handbook of Crime and Public Policy, Edited by Michael Tonry.

Ludwig, Jens and Isabel Sawhill (2008) "Success by Ten: Intervening early, often, and effectively in the education of young children." In Paths to Prosperity, Edited by Jason Furman and Jason E. Bordoff. Washington, DC: Brookings Institution Press. pp. 127-158.

Ludwig, Jens and Jacob Vigdor (2008). "Segregation and the Black-White Test Score Gap." Steady Gains and Stalled Progress: Inequality and the Black-White Test Score Gap, Edited by Katherine Magnuson and Jane Waldfogel. New York: Russell Sage Foundation Press. pp. 181-211.

Donohue, John J. and Jens Ludwig (2007) More COPS. Brookings Institution Policy Brief 158.

- Ludwig, Jens and Deborah A. Phillips (2007) “The Benefits and Costs of Head Start.” Society for Research on Child Development, Social Policy Report. Volume XXI, Number 3.
- Duncan, Greg J., Jens Ludwig and Katherine A. Magnuson (2007) “Reducing Poverty through Pre-School Interventions.” The Future of Children. 17(2): 143-160.
- Ludwig Jens and Isabel Sawhill (2007) “Success by Ten: Intervening Early, Often and Effectively in the Education of Young Children”. Brookings Institution, Hamilton Project Discussion Paper.
- Ludwig, Jens and Susan E. Mayer. (2006) “‘Culture’ and the Inter-generational Transmission of Poverty: The Prevention Paradox.” Future of Children. 16(2): 175-196.
- Ludwig, Jens and Greg Duncan (2006) “Promising Solutions in Housing and the Community.” Deviant Peer Contagion, Ed. by Kenneth Dodge, Joan McCord and Tom Dishion.
- Cook, Philip J. and Jens Ludwig (2006) “Assigning Deviant Youth to Minimize Total Harm.” Deviant Peer Contagion, Ed. by Kenneth Dodge, Joan McCord and Tom Dishion.
- Jacob, Brian and Jens Ludwig “Can the Federal Government Improve Education Research?” (2005) Brookings Papers on Education Policy. Edited by Diane Ravitch. Washington, DC: Brookings Institution Press. pp. 47-88.
- Holzer, Harry J. and Jens Ludwig. (2005) “Measuring Discrimination in Education: Are Methodologies from Labor and Housing Markets Useful?” Teacher’s College Record.
- Ladd, Helen F. and Jens Ludwig (2003) “The Effects of MTO on Educational Opportunities in Baltimore: Early Evidence.” In Choosing a Better Life. Edited by John Goering and Judith Feins. Washington, DC: Urban Institute Press. pp. 117-152.
- Ludwig, Jens, Greg J. Duncan, and Helen F. Ladd (2003) “MTO’s Effects on Children and Parents: Evidence from Baltimore.” In Choosing a Better Life. Edited by John Goering and Judith Feins. Washington, DC: Urban Institute Press. pp. 153-176.
- Cook, Philip J. and Jens Ludwig. (2003) “Pragmatic Gun Policy.” Evaluating Gun Policy. Jens Ludwig and Philip J. Cook, editors. Washington, DC: Brookings. pp. 1-40.
- Cook, Philip J. and Jens Ludwig. (2003) “The Effects of Gun Prevalence on Burglary: Deterrence vs. Inducement.” Evaluating Gun Policy. Jens Ludwig and Philip J. Cook, editors. Washington, DC: Brookings. pp. 74-120.
- Raphael, Steven and Jens Ludwig. (2003) “Do Prison Sentence Enhancements Reduce Gun Crime? The Case of Project Exile.” Evaluating Gun Policy. Jens Ludwig and Philip J. Cook, ed. Washington, DC: Brookings. pp. 251-286.



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- Cook, Philip J. and Jens Ludwig (2003) “The Effects of the Brady Act on Gun Violence.” In Bernard Harcourt, editor. Guns, Crime and Punishment in America. NY: New York University Press. pp. 283-298.
- Ludwig, Jens (2003) “Improving Neighborhoods for Poor Children.” In One Percent for the Kids: New Policies, Brighter Futures for America’s Children. Edited by Isabel Sawhill. Washington, DC: Brookings Press. pp. 136-155.
- Cook, Philip J. and Jens Ludwig. “Firearms.” (2002) Regulation through Litigation, edited by W. Kip Viscusi. Washington, DC: Brookings Institution Press. pp. 67-105.
- Cook, Philip J. and Jens Ludwig. (2002) “The Costs of Gun Violence Against Children.” The Future of Children. 12(2): 87-100.
- Bassi, Laurie, Jens Ludwig, Daniel P. McMurrer and Mark Van Buren (2002) “Profiting from Learning: Firm-level Effects of Training Investments and Market Implications.” Singapore Management Review. 24(3): 61-76.
- Johnson, Michael, Helen F. Ladd and Jens Ludwig (2002) “The Benefits and Costs of Residential Mobility Programs.” Housing Studies 17(1): 125-138.
- Ludwig, Jens (2001) “Problems in the Estimation of School Effects: Insights from Improved Models.” In Improving Educational Productivity. Edited by David H. Monk and Herbert J. Walberg. Greenwich, CT: Information Age Publishing. pp. 209-230.
- Ludwig, Jens (2000) “Gun Self-Defense and Deterrence.” Crime and Justice: A Review of Research, Volume 27. Edited by Michael Tonry. University of Chicago Press. pp. 363-417.
- Ladd, Helen F. and Jens Ludwig (1999) “Residential Relocation Policies in the United States: The Moving to Opportunity Demonstration.” Netherlands Journal of Housing and the Built Environment. 1999. 14(1): 1-20.
- Cook, Philip J. and Jens Ludwig (1998) “The Burden of ‘Acting White’: Do Black Adolescents Disparage Academic Achievement?” In The Black-White Test Score Gap. Christopher Jencks and Meredith Phillips, Editors. (Brookings Press: Washington, DC). pp. 375-400.

## **WORKING PAPERS**

- Jens Ludwig and Kevin Schnepel (2024) “Does nothing stop a bullet like a job? The effects of income on crime.” Annual Review of Criminology. (Submitted).

Stoddard, Greg, Dylan Fitzpatrick and Jens Ludwig (2024) “Predicting police misconduct” (Submitted).

Kapustin, Max, Terrence Neumann and Jens Ludwig (2022) “Policing and management.”

Rambachan, Ashesh, Jon Kleinberg, Sendhil Mullainathan and Jens Ludwig (2020) “An economic approach to regulating algorithms.” Cambridge, MA: NBER Working Paper 27111.

Davis, Jonathan M.V., Jonathan Guryan, Kelly Hallberg, and Jens Ludwig (2017) “Scale-up experiments.” Earlier version released as „The Economics of scale up,“ NBER Working Paper 23925.

Bhatt, Monica P., Jonathan Guryan, Jens Ludwig, Anuj K. Shah and the Chicago Youth Violence Project Team (2021) “Scope challenges to social impact.” NBER Working Paper 28406.

Cook, Philip J., Max Kapustin, Jens Ludwig, and Douglas L. Miller (2016) “Police and crime.”

Cook, Philip J., Kenneth A. Dodge, George Farkas, Roland G. Fryer, Jonathan Guryan, Jens Ludwig, Susan E. Mayer, Harold A. Pollack and Laurence Steinberg (2014) “The (surprising) efficacy of academic and behavioral intervention with disadvantaged youth: Results from a randomized experiment in Chicago.” Cambridge, MA: NBER Working Paper.

Heller, Sara, Harold A. Pollack, Roseanna Ander and Jens Ludwig (2013) “Preventing youth violence and dropout: A randomized field experiment.” Cambridge, MA: NBER Working Paper 19014.

Weiner, David, Byron Lutz, Jens Ludwig and Kerwin Charles. “The Effects of School Desegregation on Crime.” Working Paper, University of Chicago. (Earlier version released as NBER Working Paper 15380).

## **RESEARCH GRANTS AND AWARDS (SELECTED)**

“Combining human and machine intelligence for social impact,” (PI: Jens Ludwig; co-investigator: Sendhil Mullainathan) Alfred P. Sloan Foundation, \$399,974, 2018-2020.

“Addressing discrimination in prediction policy problems,” (PI: Jens Ludwig; co-investigators: Sendhil Mullainathan, Jon Kleinberg, and Ben Keys) Russell Sage Foundation. \$131,296, 2018-2020.

“Preventing domestic violence through machine learning prediction tools” (PI: Jens Ludwig; co-investigators: Sendhil Mullainathan, Zubin Jelveh, Aaron Chalfin) US Department of Justice, National Institute of Justice, \$452,000, 2017-19.

“Concentrated poverty and social mobility” (PI: Lawrence Katz, co-PI: Jens Ludwig), Smith Richardson Foundation, \$200,000, 2016-18.

“Launching new random controlled trials using lessons from behavioral science to positively affect communities” (Project directors: Rachel Glennerster and Jens Ludwig), Robert Wood Johnson Foundation, \$250,000, 2016-17.



“Increasing the reach of promising dropout prevention programs: Examining the tradeoffs between scale and effectiveness.” (Jens Ludwig PI; co-investigators Kelly Hallberg and Jonathan Guryan) William T. Grant Foundation, 2016, \$530,500.

“Increasing the reach of promising dropout prevention programs: Examining the tradeoffs between scale and effectiveness,” (Jens Ludwig, PI; with J. Guryan and K. Hallberg), JPAL-North America, \$150,000, 2015-17.

“Crime Lab NYC,” (Jens Ludwig, PI), Laura and John Arnold Foundation, \$4,499,222 (2014-18).

“Underground gun markets,” (Jens Ludwig, PI), National Institute of Justice 2014-MU-CX-0013, \$459,849.

“Designing at-scale programs to help at-risk youth” (Jens Ludwig, PI; Roseanna Ander, co-PI) Joyce Foundation, 2014-15. \$100,000. Spencer Foundation, 2014-15. \$75,000.

“Remediating academic and non-academic skill deficits among disadvantaged youth” (Jens Ludwig, PI; co-PI’s Susan Mayer and Harold Pollack) National Institute of Child Health and Human Development P01-HD076816-01A1, 2014-19, \$6,428,798.

“Can intensive tutoring reduce school dropout and youth violence in Chicago?” (Jens Ludwig, PI) Smith Richardson Foundation. 2014-17. \$300,000.

“Reducing youth violence,” (co-PI’s: Jens Ludwig, Anuj Shah and Sendhil Mullainathan), \$53,009, University of Chicago Women’s Board. 2015.

“Designing at-scale programs to help at-risk youth (BAM)” (Jens Ludwig, PI) Spencer Foundation Grant Award 201500011, \$75,000, 2014-15.

“Reducing dropout and youth violence in Chicago” (Jens Ludwig, PI) Laura and John Arnold Foundation. \$1,000,000 (2014-15).

“Improving academic outcomes for disadvantaged youth: A randomized experiment in Chicago.” (Jens Ludwig, PI). JPAL-North America. 2014-16. \$265,048.

“Experimental estimation of neighborhood effects on health and well-being.” National Institute of Aging R01-AG31259-5 (Lawrence F. Katz, PI: co-investigators Greg Duncan, David Harding, Ronald Kessler, Jeffrey Kling, Jens Ludwig, Lisa Sanbonmatsu) \$1,079,314.

“Enhancing hot spot policing through behavioral economics,” National Institute of Justice Award 2013-R2-CX-0006 (Anuj Shah PI; co-investigators Philip J. Cook, Christopher Fisher (NYPD), Jens Ludwig, Will Tucker and Josh Wright). \$760,440.

“Evaluations of youth violence prevention programs in Chicago,” MacArthur Foundation (Jens Ludwig, PI), \$1,410,000, 2013-14.

- “Educational achievement through intensive academic remediation,” Fry Foundation (Jens Ludwig, PI), \$53,536, 2013-14.
- “Remediating social-cognitive skill deficits among disadvantaged youth,” Crown Family Philanthropies (Jens Ludwig, PI), \$599,428, 2013-15.
- “Reducing youth violence in Chicago,” MacArthur Foundation (Jens Ludwig, PI; Co-investigators Roseanna Ander, Philip J. Cook, Kenneth Dodge, George Farkas, Jonathan Guryan, Susan Mayer, Harold Pollack, Laurence Steinberg). \$1,246,000, 2013-15.
- “Pilot anti-violence research demonstration,” MacArthur Foundation (Jens Ludwig, PI), \$500,000, 2012.
- “Mentoring best practices research,” Office of Juvenile Justice and Delinquency Prevention, US Department of Justice (Jens Ludwig, PI) \$499,050. Grant number 2012-JU-FX-0019, 2012-14.
- “Operating support for the University of Chicago Crime Lab” McCormick Foundation (Jens Ludwig PI; co-investigators Roseanna Ander and Harold Pollack), \$400,000, 2012-14.
- “Reducing criminal behavior by developing human (and social) capital.” National Science Foundation, Program on Law and Social Sciences, Research Coordination Network Award, \$150,000. (SES-1156142). PI: Philip J. Cook. Co-investigators: Shawn Bushway, Ken Dodge, Roberto Galbiati, Jens Ludwig, Justin McCrary, Terrie Moffitt, and Robert J. Sampson. 2012-14.
- “A COPS Office Assessment,” \$150,000, U.S. Department of Justice (grant 2011CKWX0098). PI: Jens Ludwig. Co-investigators: Philip J. Cook and Douglas L. Miller. 2011-13.
- “Neighborhood poverty, health, and economic security over the adult lifespan.” \$903,000. National Institute of Aging, R01-AG031259-03. (PI: Jens Ludwig; co-investigators: Greg J. Duncan, Lawrence F. Katz, Ronald C. Kessler, Jeffrey R. Kling, Petra Todd). 2011-13.
- “Core operating support for the University of Chicago Crime Lab.” \$450,000. John D. and Catherine T. Macarthur Foundation. (PI: Jens Ludwig; co-PI’s: Roseanna Ander and Harold Pollack). 2011-14.
- “Prevention of substance abuse and problem behaviors in high-risk adolescents.” National Institute of Drug Abuse, R34DA029791 (PI: Michael McCloskey; co-PI’s: Harold Pollack, Jonathan Guryan, Eunice Chen, Kenneth Dodge). \$540,906.
- “The causes of truancy and dropout: A mixed-methods experimental study in Chicago Public Schools.” William T. Grant Foundation (Jonathan Guryan, PI; co-PI’s: Roseanna Ander, Sandra Christenson, Amy Claessens, Philip J. Cook, Mimi Engel, and Jens Ludwig). \$597,000. 2011-14.
- “Neighborhood moves and sociolinguistic mobility,” National Science Foundation Linguistics Program (John Rickford, PI; Jens Ludwig, co-PI). \$380,000. 2011-2013.

“Reducing Youth Gun Violence in Chicago” McCormick Foundation (Jens Ludwig PI; co-investigators Roseanna Ander and Harold Pollack), \$200,000, 2011-12.

“A randomized study to abate truancy and violence in grades 3-9,” National Institute for Child Health and Human Development (R01HD067500, PI = Jonathan Guryan; co-investigators Sandra Christenson, Philip Cook and Jens Ludwig), \$3,010,000, 2010-2015.

“The University of Chicago Crime Lab,” Joyce Foundation, PI, \$200,000. 2009-2011.

“Reducing juvenile delinquency by building non-cognitive skills: Experimental evidence,” Smith Richardson Foundation 2010-8360 (PI = Jonathan Guryan; Co-investigators Jens Ludwig and Sara Heller), \$296,039, 2010-12.

“Neighborhoods, speech patterns, and schooling,” National Institute for Child Health and Human Development R21HD062870-01A1 (Principal Investigator; Co-investigators Holly Craig, Jeffrey Grogger, and John Rickford), \$540,075, 2010-2012.

“Preventing truancy in urban schools through provision of social services by truancy officers: A goal 3 randomized efficacy trial.” U.S. Department of Education Institute for Education Sciences R305A100706 (Co-investigator; with PI Jonathan Guryan and co-investigators Philip Cook and Roseanna Ander), \$3,177,638. 2010-2014.

“Neighborhood effects on decision-making processes by low-income adults and youth,” National Institute for Child Health and Human Development R21-HD065157-01 (Principle Investigator; co-investigator William Congdon), \$193,860.

“Workshop on social policy as crime prevention,” National Science Foundation SES-1024173 (Co-PI with Philip Cook), \$30,000, 2010.

“Youth violence and housing programs to deconcentrate poverty,” Centers for Disease Control, Principal Investigator (Co-investigators Brian Jacob and Roseanna Ander), (CE001631). \$899,687. 2009-11.

“Chicago Youth Gun Violence Initiative.” Principal Investigator. MacArthur Foundation (\$250,000), Spencer Foundation (\$25,000), Exelon Corporation (\$15,000), Polk Foundation (\$50,000).

“Chicago Public-Private Experimental Partnerships to Reduce Youth Violence.” Principal Investigator. National Institute for Child Health and Human Development. (R21-HD061757-01) \$351,000. 2009-11.

“The Costs and Benefits of Crime Control and Prevention.” Co-Principal Investigator (with Philip Cook and Justin McCrary), MacArthur Foundation \$109,000; Public Welfare Foundation \$100,000. 2009-2010.

“Measuring neighborhood effects on long-term health outcomes.” Principal investigator, University of Chicago

Center for Health Administration Studies Small Grant Award, \$10,000. Principal investigator, University of Chicago / NORC Population Research Center Small Grant Award, \$20,000. 2009-2010.

“Neighborhood poverty, health, and economic security over the adult lifespan,” Principal investigator, National Institute of Aging (1R56 AG031259-01A1), \$400,278, 2009-2011.

“The effects of housing vouchers on long-term health outcomes,” MacArthur Foundation, co-investigator (Thomas McDade, PI; co-investigators Greg Duncan, Lisa Gennetian, Lawrence Katz, Ronald Kessler, and Jeffrey Kling). \$250,000. 2009-2011.

“Neighborhoods and social inequality,” Russell Sage Foundation, co-PI (with Jeffrey Kling), \$300,000. 2009-2011.

“The Effects of School Desegregation on Crime,” National Science Foundation SES-0820033, PI, \$165,200. 2009-2011.

“The Effects of Disadvantaged Neighborhoods on the Life Chances of Low-Income Families,” Co-investigator (Greg Duncan, PI, Jeffrey Kling, co-investigator), Gates Foundation, \$1,600,000. 2007-2010.

“The Effects of Disadvantaged Schools and Neighborhoods on the Education of Low-Income Youth,” Co-investigator (Greg Duncan, PI, and Jeffrey Kling, co-investigator), Institute for Education Sciences, \$600,000. 2007-2010.

“Children and Neighborhoods: Randomized Study of Mobility.” Co-investigator (Jeffrey Kling, PI; co-investigators Greg Duncan, Ron Kessler, and Larry Katz). NICHD (HD040444, \$2,711,455). 2007-2012.

“Effects of High-Poverty Neighborhoods on Youth,” Co-investigator (Larry Katz, PI; co-investigators Jeffrey Kling, Greg Duncan and Ron Kessler). NICHD (HD040404, \$2,200,696). 2007-2012.

“The effects of school and neighborhood mix on long-term youth outcomes,” Co-investigator (Greg Duncan, PI), Smith Richardson Foundation. \$352,945. 2007-2011.

“Neighborhood Poverty and Mental Health of Low-Income Mothers: An Experimental Study,” Co-investigator (Jeffrey Kling, PI; co-investigators Greg Duncan, Ron Kessler and Larry Katz). NIMH (MH077026, \$1,026,574). 2007-2012.

“The Long-Term Effects of Neighborhoods on Low-Income Youth,” Co-investigator (Greg Duncan, PI, co-investigators Jeffrey Kling, Larry Katz and Ron Kessler). MacArthur Foundation, \$1,799,061. 2007-2011.

“The Effects of Public Housing on Children’s Health.” Principal investigator (Brian Jacob, co-investigator). Robert Wood Johnson Foundation. \$25,000. 2007-2009.

“The Long-Term Effects of Neighborhoods on the Education of Low-Income Youth,” Senior investigator (PI:

Jeffrey Kling). \$429,050. The Spencer Foundation. 2007-2009.

“Final Impact Evaluation of the Moving to Opportunity Demonstration,” U.S. Department of Housing and Urban Development, Contract C-CHI-00808 (\$1,900,000). Project director (PI: Lawrence Katz, Senior Investigators: Greg Duncan, Ronald Kessler and Jeffrey Kling). 2006-2011.

“Long-Term Effects of the Moving-to-Opportunity Experiment on Youth Violence,” Centers for Disease Control, 1-R49-CE000906-01 (\$900,000). Principal Investigator. 2006-2009.

“Experimental Analysis of Long-Term Effects on Human Behavior from Changes in Residential Neighborhood Environment,” National Science Foundation DHB: SES-0527615. (\$750,000). Co-investigator, with Jeffrey Kling, Lawrence Katz, Greg Duncan and Ronald Kessler. 2006-2008.

“Estimating Neighborhood Effects on Low-Income Youth,” with Jeff Smith and Brian Jacob, William T. Grant Foundation (\$367,000). 2005-2007, co-principal investigator.

“Urban Poverty and Housing Vouchers in Chicago,” with Brian Jacob. Smith Richardson Foundation (\$330,000), Northwestern University / University of Chicago Joint Center for Poverty Research (\$30,000), National Consortium on Violence Research (\$97,000). 2001-2004. Co-PI.

“A Mid-Term Evaluation of the Effects of the Moving to Opportunity Housing-Voucher Experiment on Criminal Offending,” National Consortium on Violence Research (\$311,000), U.S. Department of Housing and Urban Development (\$15,000). 2001-2003. Co-PI.

“Evaluating Gun Policy,” with Philip J. Cook. Smith Richardson Foundation (\$258,000), Annie E. Casey Foundation (\$170,000). 2001-2004. Co-PI.

“Gun Availability and Crime,” with Philip Cook and Sudhir Venkatesh. Joyce Foundation (\$339,000). 2001-2003. Co-PI.

“The Effects of Neighborhood Poverty on Low-Income Families: Early Evidence from the Moving to Opportunity Experiment.” William T. Grant Foundation (\$80,000), Smith Richardson Foundation (\$80,000), U.S. Department of Housing and Urban Development (with Helen F. Ladd) (\$50,000).

“Evaluation of the Effects of the 1994 Brady Bill on Firearm Injuries,” with Philip Cook. Joyce Foundation (\$15,000).

“A Study of The Costs of Gunshot Woundings,” with Philip Cook and Ted Miller. Joyce Foundation (\$318,000).

“Guns in America: Results from a National Survey.” With Philip J. Cook. National Institute of Justice (\$5,000); Police Foundation (\$15,000).

# **POLICY PRESENTATIONS, TESTIMONY AND PUBLIC SERVICE (SELECTED)**

Presentation at 10 Downing Street Summit on Serious Youth Violence, London, April 1, 2019.

“Crime policy for the new mayoral administration,” City Club of Chicago, March 19, 2019.

“Crime in Chicago: Beyond the Headlines,” City Club of Chicago, January 29, 2018.

“Criminal justice meets the 21<sup>st</sup> century,” TEDx Pennsylvania Avenue, Washington, DC February 9, 2017.

“Gun violence in Chicago,” City Club of Chicago, January 26, 2017.

Presentation on “Data Driven Crime Policy,” Chicago 2014 Investor’s Conference, August 8, 2014.

Presentation at the National Press Club on “Think Before You Act,” The Hamilton Project, Washington, DC, June 1, 2014.

Testimony on the University of Chicago Crime Lab’s benefit-cost analysis of HB2265/SB2267, Sentence enhancements for unlawful use of a weapon (UW) offenses. Chicago City Council, Public Safety Committee. October 15, 2013.

Presentation on “Gun violence and the Second Amendment,” Chicago Bar Association / Union League Club Forum, Chicago, IL May 13, 2013.

Presentation on “Data and research on gun violence,” news conference by Senator Dick Durbin, Chicago, IL, January 10, 2013.

Presentation on “Underground gun markets,” Center for Evidence Based Crime Policy (George Mason University) Capitol Hill Briefing, February 22, 2012, Washington, DC.

Presentation on “Neighborhood effects on health,” National Institute of Aging, 115<sup>th</sup> meeting of the National Advisory Council on Aging, Bethesda, MD. January 25, 2012.

Presentation on “Human services and health,” U.S. Department of Health and Human Services, Washington, DC, January 24, 2012.

Presentation on “Housing and health,” at HUD / Macarthur Conference: How Housing Matters, Washington, DC, November 2, 2011.

Presentation on “Benefit-cost analysis for crime policy,” Research in the Real World, National Institute of Justice, U.S. Department of Justice, Washington, DC, February 24, 2011.

Presentation on “Pragmatic Approaches to Gun Violence,” West Side Democratic Club, New York City, February 17, 2011.

Presentation on “Municipal Strategies to Reduce Youth Gun Violence,” Vera Institute of Justice, Neil A. Weiner



Research Speaker Series, February 17, 2011.

Presentation on “Reducing gun violence through enforcement,” Sixth Annual H.F. Guggenheim Conference on Crime in America, John Jay College of Criminal Justice, New York City, February 1, 2011.

Presentation on “Context for the National Head Start Impact Study,” to the Secretary’s Advisory Commission on Head Start, U.S. Department of Health and Human Services, Washington, DC, January 25, 2011.

Presentation on “Youth gun violence in Chicago,” Chicago Tribune Community Conversation, Seeking Safe Passage: Solutions. April 25, 2010.

Presentation on “Success by Ten” policy proposal, The Brookings Institution Hamilton Project, National Press Club, March 29, 2007.

Presentation on “Does Head Start Improve the Life Chances of Poor Children?” Administration on Children and Families, U.S. Department of Health and Human Services, March 15, 2007.

Presentation on the U.S. Department of Justice COPS Program, Senate Staff Briefing on Rising Crime Rates in the United States, Sponsored by Senator Joseph Biden, March 14, 2007.

Presentation on “Increasing children’s economic opportunities by changing family circumstances,” to the Annie E. Casey Foundation 2006 Kids Count Conference, Baltimore, MD.

Great Lakes Region Law Enforcement Advisory Group, International Association of Chiefs of Police (2006).

Testimony, Hearing on the Costs of Crime, U.S. Senate Judiciary Committee, September 19, 2006.

Presenter, Enforcing America’s Gun Laws: Rhetoric or Reality?, Annual Meetings of the American Bar Association, August 8, 2004, Atlanta, GA.

Presentation to Gun Policy Workshop Organized by Prince George’s County State’s Attorney Glenn Ivey, University of Maryland, May 27, 2004.

Testimony, Hearing on Project Safe Neighborhoods, U. S. Senate Judiciary Committee, May 13, 2003.

Presentation on Moving to Opportunity, Brookings Urban Center / Center on Budget Policy and Priorities Conference on Housing Policy and Welfare Reform, April 12, 2002.

Guest, Center for Law and Social Policy (CLASP) Audio Conference AHousing: What Do Suburbs or PHA’s Spell for Low Income Kids and Parents?@ October 19, 2001.

Briefing to Congressional Staff on Gun Violence: The Real Costs, Longworth House Office Building, Washington, DC, November 13, 2000.

Discussion of the Brady Handgun Violence Prevention Act, The O'Reilly Factor, Fox News Channel, August 31, 2000.

Presentation of Housing Policy and the Moving to Opportunity Demonstration, House Ways and Means Luncheon, Washington, DC, July 28, 2000.

Guest, Think Tank with Ben Wattenberg, taped on May 30, 2000.

Presenter, Northwestern University / University of Chicago Joint Center for Policy Research Congressional Briefing on Juvenile Crime (sponsored by Senators Joseph Biden and Arlen Specter), U.S. Capitol Building, Washington, DC, January 19, 2000.

Briefing of Maryland Attorney General Joe Curran on the effects of permissive concealed-gun-carrying laws, Washington, DC, December 14, 1999.

Expert testimony to joint session of the Minnesota State Senate and House over legislation for permissive concealed-handgun-carrying, Minneapolis / St. Paul, MN, February 19, 1999.

Expert testimony in debate over legislation for permissive concealed-handgun-carrying legislation in Kansas. Koch Crime Commission, Topeka, Kansas, January 28, 1998.

Expert testimony in debate over legislation on concealed-handgun-carrying (A.B. 1369), Committee on Public Safety, Assembly of the California Legislature, January 13, 1998.

Submission of Affidavit to Court of Appeal of Province of Alberta, Canada, April 18, 1997 in support of the Canadian *Firearms Act* (S.C. 1995, Chapter 39) at the request of Coalition for Gun Control, Toronto, Canada.

## **DISSERTATION COMMITTEES**

Haeil Jung (Harris School), graduation 2009 [first placement: Indiana University, tenure track]  
Lucy Bilaver (SSA), Chair, graduation 2010 [first placement: Northwestern University Medical School post-doctoral fellowship]  
Chloe Gibbs (Harris School), graduation 2012 [first placement: University of Virginia, tenure track]  
Rachel Garrett (Harris School), graduation 2010 [first placement: University of Chicago post-doc]  
Julia Burdick-Will (Sociology), graduation 2012 [first placement: Brown University post-doctoral fellowship; first tenure-track placement: Johns Hopkins]  
Sara Heller (Harris School), Chair, 2013 [first placement: U. Pennsylvania criminology, tenure track]  
Kevin Corinth (Economics), graduation 2014 [first placement: American Enterprise Institute]  
David Schalliol (Sociology), graduation 2015 [first placement: St. Olaf's College]  
Elyzabeth Leigh Gaumer (Sociology), 2013-2020 [first placement: NYC Housing]  
Daniel Kimmel (Sociology), graduation 2016 [first placement: Yeshiva University]  
Jonathan Davis (Harris School), graduation 2016 [first placement: U. Oregon economics, tenure-track]  
Nolan Pope (Economics), graduation 2017 [first placement: U. Maryland economics, tenure track]



NaYoung Rim (Harris School), graduation 2017 [first placement: US Naval Academy, tenure track]  
Robert Collinson (NYU Wagner School), 2017-2018 [first placement: Notre Dame economics]  
Bocar Ba (Harris School), 2017-2018 [first placement: Duke economics post-doc; first tenure-track placement: UC-Irvine]  
Nour Abdul-Razzak (Harris School), Chair, 2017-2021 [first placement: Inclusive Economy Lab]  
Becca Goldstein (Harvard political science), 2018-19 [first placement: UC-Berkeley Law School]